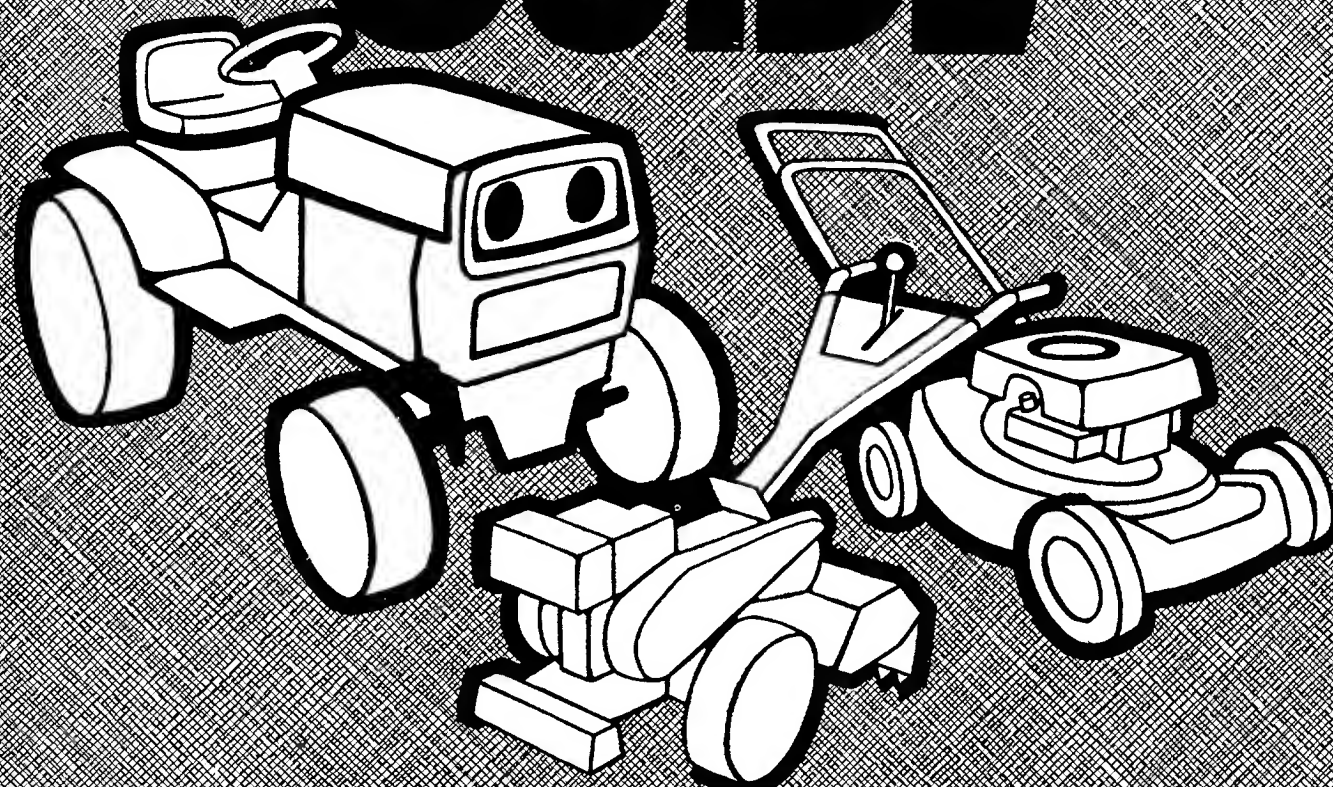


# OWNER'S GUIDE



ASSEMBLY • OPERATION • MAINTENANCE • PARTS

## 34" LAWN TRACTORS

### Important:

**Read Safety Rules and  
Instructions Carefully**

Thank you for purchasing an  
American built product.

### Model Numbers

**131-465A**

**131-466A**

**131-465-300**

**131-466-300**

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## LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



**WARNING**

### TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.



## WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

# SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—**READ THIS OWNER'S MANUAL.**
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Do not carry passengers.
6. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
7. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
8. Stop the blade(s) when crossing gravel drives, walks or roads.
9. Disengage all attachment clutches and shift into neutral before attempting to start engine.
10. Disengage power to attachment(s) and stop engine before leaving operating position.
11. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
12. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
13. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
14. Disengage power to attachment(s) when transporting or not in use.
15. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
16. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
17. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
18. Stay alert for holes in terrain and other hidden hazards.
19. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
20. Watch out for traffic when crossing or near roadways.
21. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
22. Handle gasoline with care. It is highly flammable.
  - A. Use approved gasoline container.
  - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
  - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
23. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
24. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
25. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
26. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
27. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
28. Do not change the engine governor settings or overspeed the engine.
29. When using the vehicle with mower, proceed as follows:
  - (1) Mow only in daylight or in good artificial light.
  - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
  - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
  - (4) Check blade mounting bolts for proper tightness at frequent intervals.
30. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
31. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.

# ASSEMBLY INSTRUCTIONS



This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

## Tools Required:

- (1) 7/16" Open End or Box Wrench
- (1) 1/2" Open End or Box Wrench
- (1) 3/4" Open End or Box Wrench
- (1) Adjustable Wrench

## Contents of Hardware Pack: (See figure 1)

- A (1) Steering Wheel Cap
- B (1) Belleville Washer
- C (1) Hex Lock Nut 5/16-18 Thread
- D (1) Lock Washer 1/2" I.D.
- E (1) Hex Nut 1/2-13 Thread
- G (1) Rubber Band
- H (2) Ignition Keys
- I (1) Battery Pack (Not Shown)

## Loose Parts in Carton:

- J (1) Seat (Not Shown)
- K (1) Steering Wheel (Not Shown)



Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

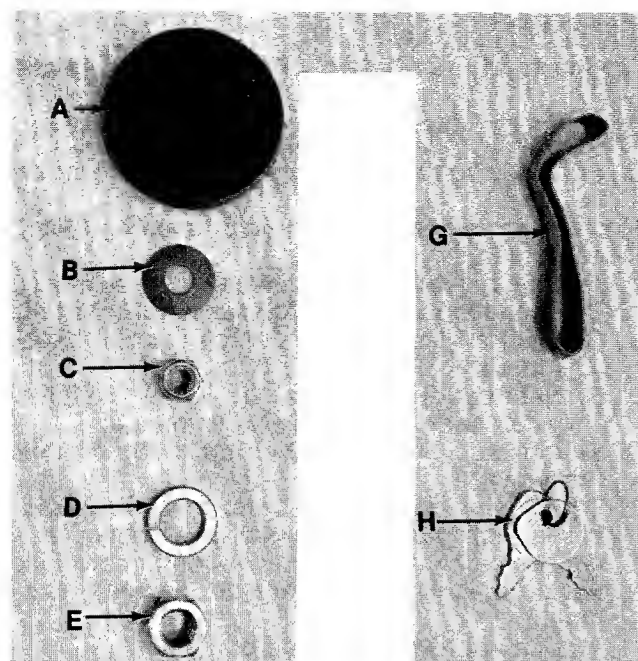


FIGURE 1.

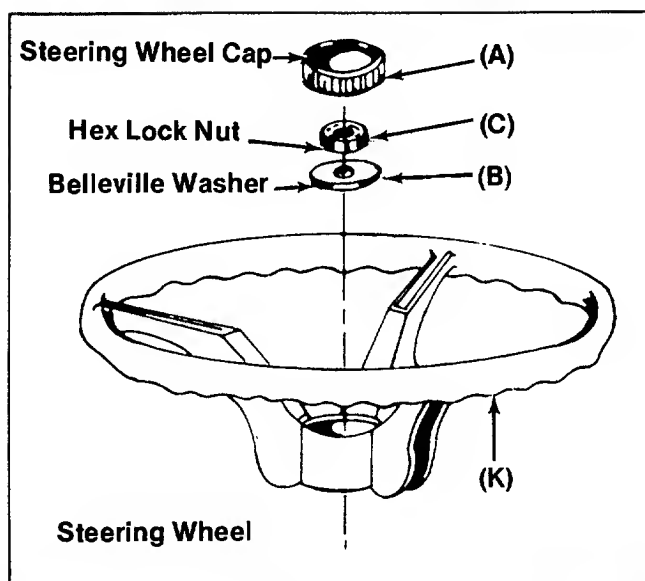


FIGURE 2.

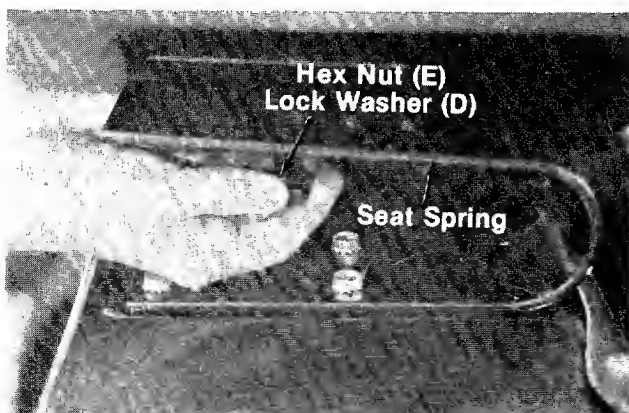


FIGURE 3.

1. Remove the lawn tractor and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Place steering wheel (K) over steering shaft.
3. Secure with belleville washer (B) and hex lock nut (C). See figure 2.
4. Press the steering wheel cap (A) on the steering wheel by hand. See figure 2.
5. Your molded seat comes with the mounting bolt molded in the seat.
  - A. Select one of three hole locations on seat spring.
  - B. Place seat on spring and secure with lock washer (D) and hex nut (E). See figures 1 and 3.



Check ALL nuts and bolts for correct tightness.

# BATTERY INFORMATION FOR ELECTRIC START MODELS



**WARNING**

- A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.
- B. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.
- C. If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.
- D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

- E. Keep sparks, flame, cigarettes away.
- F. Hydrogen gas is generated during charging and discharging.
- G. Ventilate when charging or using in enclosed space.
- H. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.
- I. Always shield eyes, protect skin and clothing when working near batteries.



**DANGER**

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

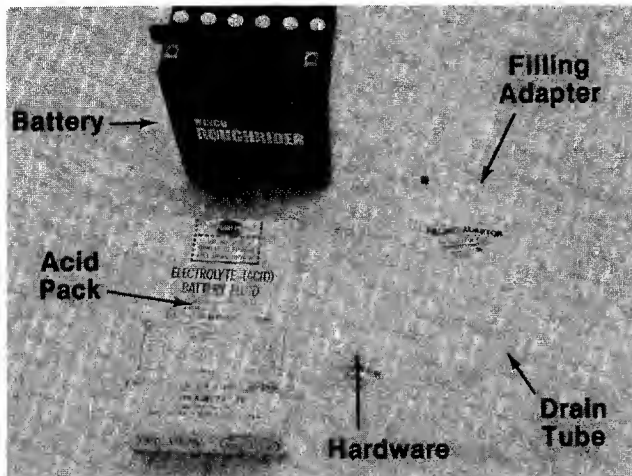


FIGURE 4.

## ACTIVATING AND INSTALLING THE BATTERY

1. Upon opening the battery pack, you should receive acid pack, battery, drain tube, filling adapter and hardware. See figure 4.



**DANGER**

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

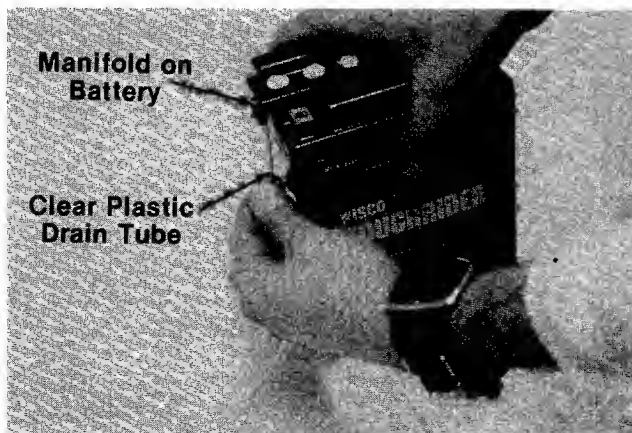


FIGURE 5.

2. Place the battery on table or workbench to be filled.

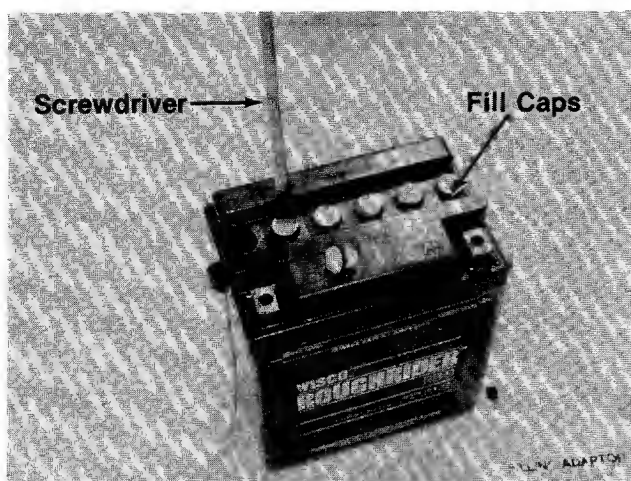
3. Place one end of clear plastic drain tube on manifold of battery. See figure 5.



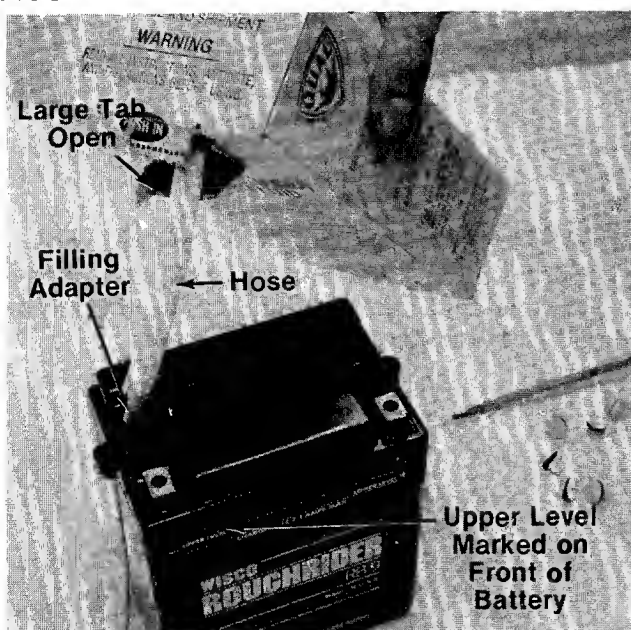
**NOTE**

Some batteries may already have the drain tube installed, in which case it may be necessary to snip off the sealed end.





**FIGURE 6.**



**FIGURE 7.**



**POISON/DANGER  
CAUSES SEVERE BURNS**

Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: **EXTERNAL**—Flush with water. **INTERNAL**—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or veg. oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space.

Always shield eyes when working near batteries.

**KEEP OUT OF REACH OF CHILDREN**

4. Remove the six fill caps from the top of the battery. A screwdriver will make it easier. See figure 6.

5. Lay acid package down, with "push in" facing up. Using thumb, push in small perforated tab at dot on front of package. Tear down large tab to solid line, exposing hose. **Do not** use a sharp tool or object to open acid package.
6. Pull out hose from package and hold upright. Squeeze hose forcing all acid back into package. Cut off tip of hose and insert filling adapter. See figure 7.
7. Fill each cell to upper level marked on front of battery. Reassemble fill caps to battery. See figure 7.

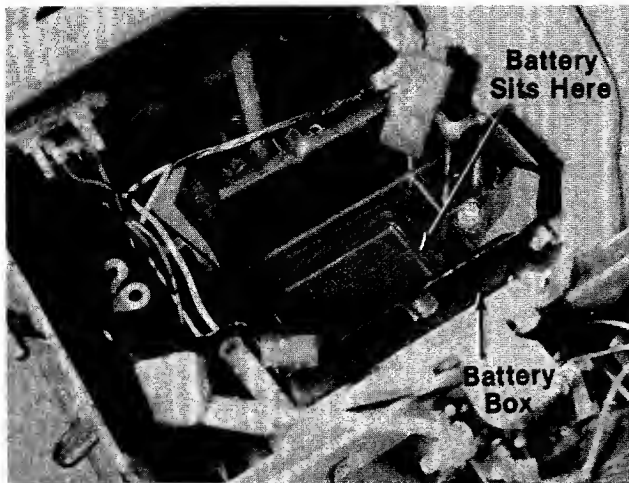
8. Allow battery to sit for 20 minutes to 1/2 hour. Add additional acid if necessary to bring it up to the proper level.
9. The battery can be charged after the 20 minutes sitting period. The battery can be **SLOW CHARGED (DO NOT FAST CHARGE)** at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

**NOTE**

Charging rate after battery has been put into operation: The battery is to be charged with the charger provided, for a period of 14-16 hours. **NO LONGER THAN 30 HOURS.**

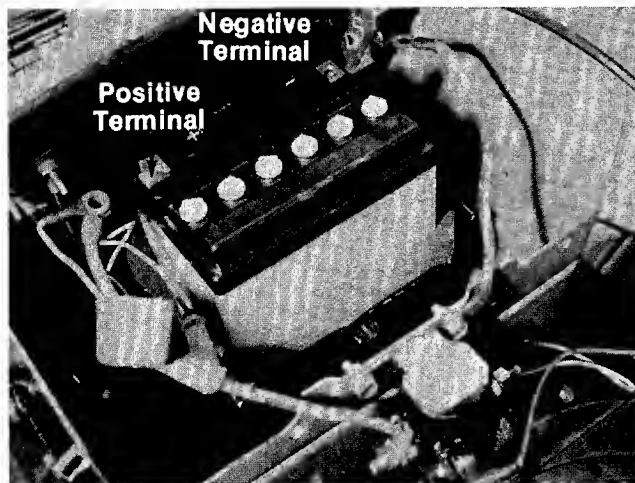
**CAUTION**

After battery has been in service, add only distilled water. **DO NOT ADD ACID.**



**FIGURE 8.**

10. Open the hood of the lawn tractor. Figure 8 shows the battery box in which the battery will be mounted.

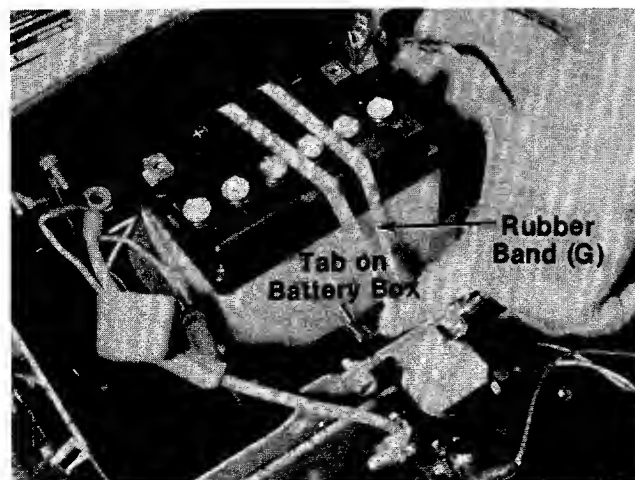


**FIGURE 9.**

11. Place the battery in the rider so that the positive terminal is towards the **right** side of the unit. See figure 9.

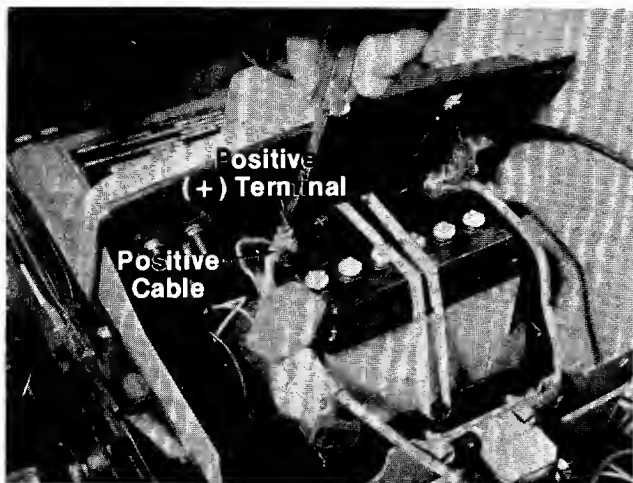
**NOTE**

Right and left hand side of the unit is determined by sitting on the seat in the operating position, facing forward.



**FIGURE 10.**

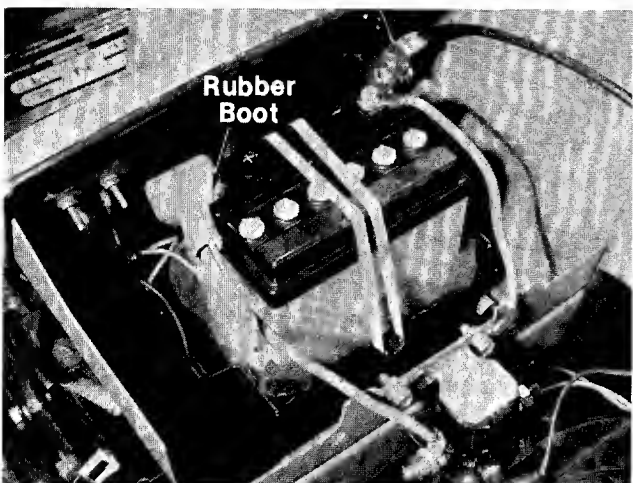
12. Secure the battery to the battery box by stretching the rubber band (G) provided across the battery. Loop each end around the tab on the sides of the battery box. See figure 10.



**FIGURE 11.**

13. Slide the square nut (provided with battery hardware) into the positive (+) terminal. Slide the rubber boot back which is on the positive cable. Place the positive (heavy red wire) cable and the small red wire (with a fuse holder in it) on the positive terminal. Secure with screw and lock washer provided. See figure 11.

14. Slide the square nut (provided with battery hardware) into the negative (-) terminal. Place the negative (heavy red wire) cable on the negative terminal. Secure with screw and lock washer provided.



**FIGURE 12.**

15. Slide the rubber boot over the positive terminal. See figure 12.



**FIGURE 13.**

16. Feed the end of the battery drain tube into the convoluted tube already installed in tractor. See figure 13.



# CONTROLS

a. **Throttle Control.** The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from  $\frac{3}{4}$  to full throttle when operating the cutting deck or snow thrower (optional). See figure 14.

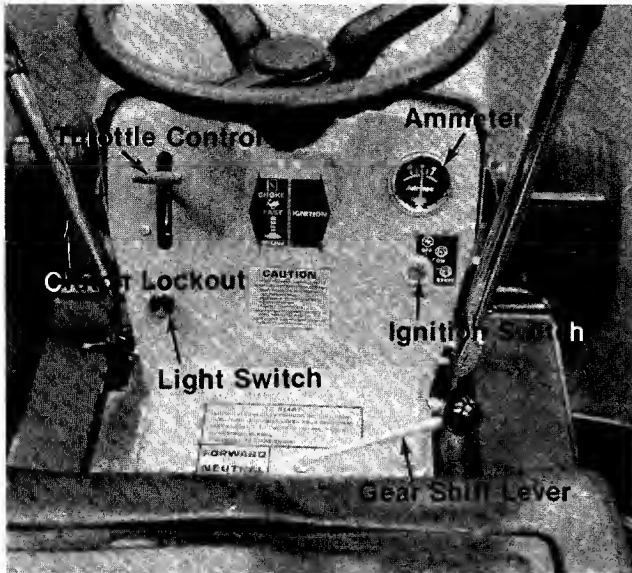


FIGURE 14.

b. **Gear Shift Lever.** The gear shift lever is used to shift into "FORWARD," "NEUTRAL" or "REVERSE." See figure 14.

c. **Brake.** The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 15.

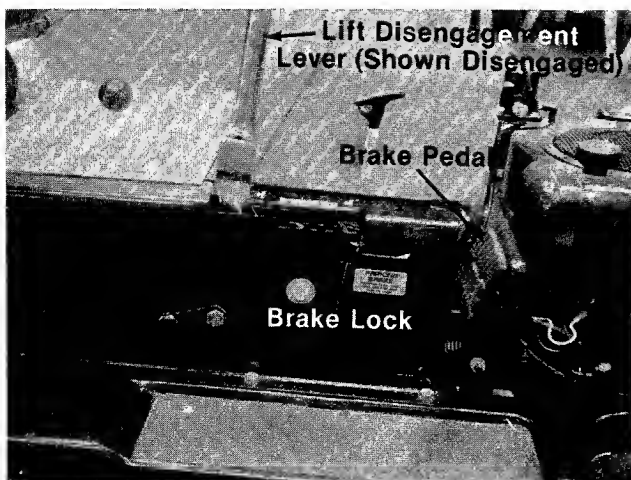


FIGURE 15.

d. **Brake Lock.** The brake lock is located on the right hand side of the mower. To lock the brake,

depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 15.

e. **Clutch Pedal.** The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will reduce mower speed. If depressed all the way, it will stop the mower. See figure 16.

f. **Clutch Lockout.** When the clutch pedal is depressed all the way it can be locked by placing the clutch lockout in the "START" position as shown in figure 16. The clutch lockout must be in this position before the engine will start.

g. **Stop Lever.** The stop lever allows you to regulate the maximum ground speed of the riding mower by setting the stop lever in any one of the five settings. The farther forward the stop lever is set, the faster the ground speed. See figure 16.

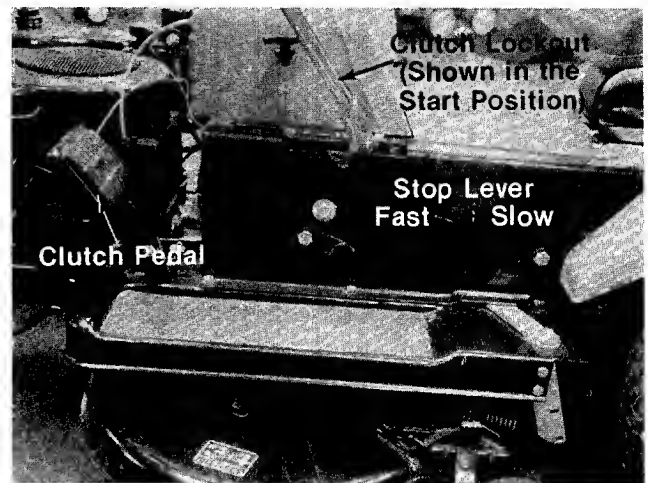


FIGURE 16.

h. **Ammeter.** The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus side (+) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling, the ammeter will not show a charge. See figure 14.

i. **Light Switch.** Push the light switch to turn on the lights. The lights will only operate when the engine is running. See figure 14.

j. **Ignition Switch.** The ignition switch is located on the right side of the dashboard.

Turn the key to the "START" position to start the engine. When the engine is running, let the key return to the "ON" position. To stop the engine, turn the key to the left to the "OFF" position and remove it to prevent accidental starting. See figure 14.



#### NOTE

The engine will not start unless the clutch lockout is in the "START" position and the lift lever is in the DISENGAGED position.

k. **Lift and Disengagement Lever.** It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blades. The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 15.

i. **Cutting Controls.** The cutting controls consist of the height of cut stop and the wheel height adjusters.

**Height of Cut Stop.** See figure 17. Lift the stop and set it at the desired cutting height.

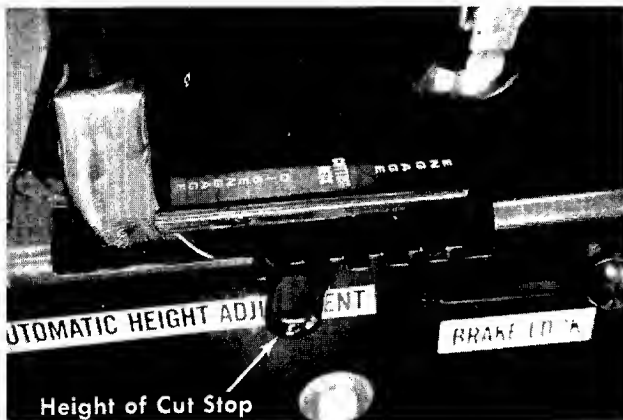


FIGURE 17.

**Wheel Height Adjuster.** See figure 18. Move the lever towards the wheel and set it in the desired cutting height.

The cutting height of the mower can be set in two different ways: FULL FLOAT position where the deck follows the contour of the ground, and the SUSPENDED position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

To set the cutting deck in the full float position, set the wheel height adjusters in the desired cutting height as indicated in figure 18. Set height of cut stop all the way forward.

To set the cutting deck in the suspended position, set the height of cut stop in the desired cutting height and then set the deck wheels so they just clear the ground.



#### CAUTION

Parking brake **MUST** be disengaged before unit is put into motion.



#### NOTE

Unit is equipped with separate brake and clutch pedals. To stop, it is necessary to disengage clutch when applying brakes.

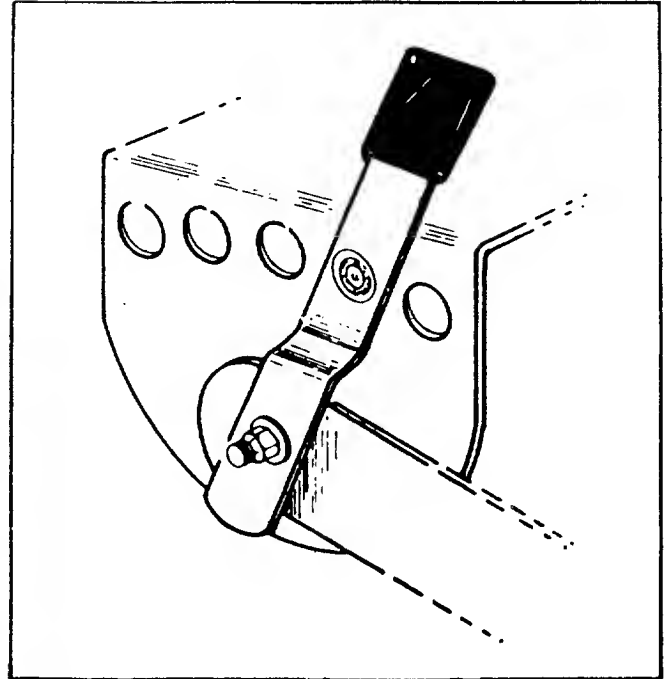


FIGURE 18.

## OPERATION



#### CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
  - a. Shift transmission to neutral
  - b. Set parking brake
  - c. Disengage attachment clutch
  - d. Shut off engine
  - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

## TIRE PRESSURE

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.



### CAUTION

Installation of tire to rim:

1. Lubricate tire beads and rim flanges.
2. Do not exceed 30 P.S.I. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

## STARTING THE ENGINE

Be sure to follow the instructions for the oil and gasoline as described in the engine manual.

1. Be sure the fuel shut-off valve is open. See figure 19.

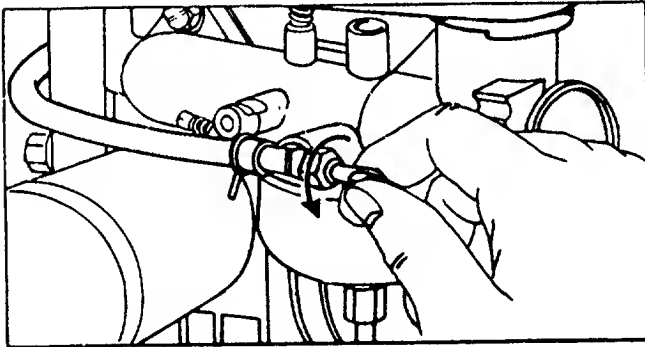


FIGURE 19.

2. Place the clutch lockout in the "START" position. See figure 16.
3. Place the lift and disengagement lever in the "DISENGAGED" position. See figure 15.



### NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch pedal is in lock-out position and the lift and disengagement lever is in the disengaged position.



### WARNING

Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

4. Set the throttle control in the "CHOKE" position. See figure 14.
5. Turn the ignition key to the "START" position. When the engine is running, let the key return to the "ON" position. See figures 14 and 20.



FIGURE 20.

## STOPPING THE ENGINE

Turn the ignition key to the left to the "OFF" position and remove the key to prevent accidental starting.



### NOTE

A brief break-in period is essential to ensure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 2 hours of operation.



### IMPORTANT

After striking a foreign object, stop the engine (motor). Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

## OPERATING THE MOWER

1. Set the desired cutting height.
2. Start the engine.
3. Select gear and shift.



#### NOTE

As you become familiar with the operation of the mower you can move the stop lever to a faster position.

4. While holding down the clutch pedal, move the clutch lockout lever forward.
5. Put the gear shift lever into either "FORWARD" or "REVERSE."



#### NOTE

DO NOT force the gear shift lever! If the lever cannot be moved from "NEUTRAL" to one of the drive positions, release the clutch pedal slowly, depress it again, and then move the gear shift lever as required.

6. Once the machine is in motion, remove foot from the pedal. The mower will now move ahead or to the rear, and the use of the steering wheel will provide directional control.
7. The mower is brought to a stop by pressing your right foot against the brake pedal and your left foot against the clutch pedal. The drive belt will be disengaged and the brake will be applied.



#### CAUTION

Gear changing should be done only after the mower had been brought to full stop. If the mower is not to be used for a long period, place the gear shift lever in "NEUTRAL" and stop the engine. DO NOT leave the machine on an incline.

### OPERATING THE CUTTER BLADE

The cutting blades may be engaged while the mower is moving or standing still. DO NOT engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.



#### WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening and from the blade.

To stop the blades, move the lift and disengagement lever (figure 15) into the DISENGAGED position. This raises the deck and disengages the blades.



#### NOTE

When the machine is used for other than mowing operations the blade drive should be disengaged.

### CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

#### Oil Check

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil should be kept between the add and full marks on the dipstick.

After the first five hours of operating a new engine, drain the oil (see figure 21) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. This procedure ensures minimum wear of engine parts. To change the oil, proceed as follows:

1. With the machine on level ground, place a suitable metal container under the oil drain plug, then remove the drain plug. See figure 21.

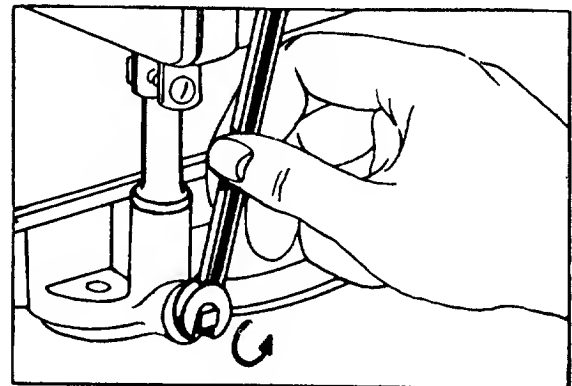
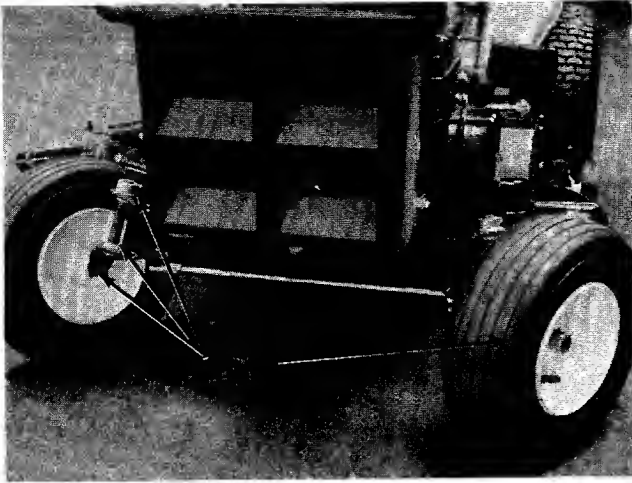


FIGURE 21.

2. After the oil has been drained completely from the crankcase, replace the drain plug and tighten.
3. Refill crankcase with 2¼ pints of good quality, type MS, Engine oil into the crankcase. Summer use SAE 30; Winter (Below 40°F) use SAE 5W-20 or SAE 10W.

## LUBRICATION

Lubricate the wheel bearings (2 per wheel) and the upper and lower spindle bearings with SAE 30 oil once a season. See figure 22.



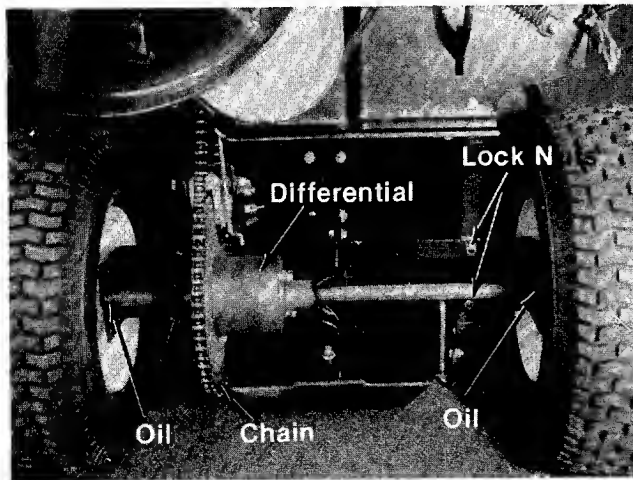
**FIGURE 22.**

**Variable Speed**—See page 28.

**Front Pivot Bar**—Lubricate at least once a season with light oil.

**Steering and Drag Link**—Should be lubricated once a season with light oil.

Lubricate the four rear axle bearings with SAE 30 oil once a season. See figure 23.



**FIGURE 23.**

The chain can be lubricated by wiping it with an oily rag.

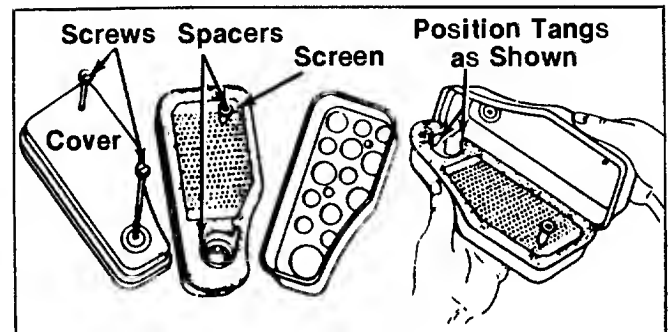
The differential and transmission are sealed at the factory and require no further lubrication.

#### **AIR CLEANER**

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions the air cleaner must be serviced after every hour of operation. Refer to figure 24.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

1. Remove two screws and lift off complete air cleaner assembly.
2. Remove screen and spacers from foam element.
3. Remove foam element from air cleaner body.
4. a. Wash foam element in kerosene or liquid detergent and water to remove dirt.  
b. Wrap foam in cloth and squeeze dry.  
c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.  
d. Assemble parts. Fasten to carburetor with screw.



**FIGURE 24.**

## **ADJUSTMENTS AND MAINTENANCE**



**WARNING**

Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

#### **CHAIN ADJUSTMENT**

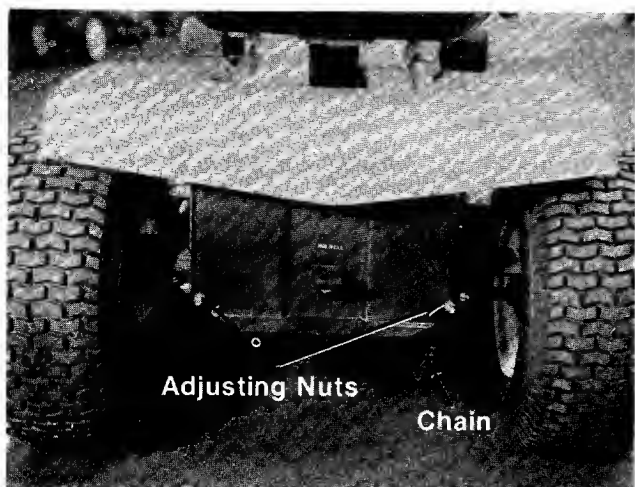
To tighten the chain, loosen two lock nuts on each side of rear axle as shown in figure 23.

Tighten the adjusting nuts (figure 25) equally on both sides. Tighten until the chain has  $\frac{1}{2}$  inch slack between the sprockets.

The adjusting nuts can be tightened individually to align the axle.

Tighten the 4 lock nuts after the adjustment is made.





**FIGURE 25.**

### **CLEANING ENGINE AND BLADE HOUSING**

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

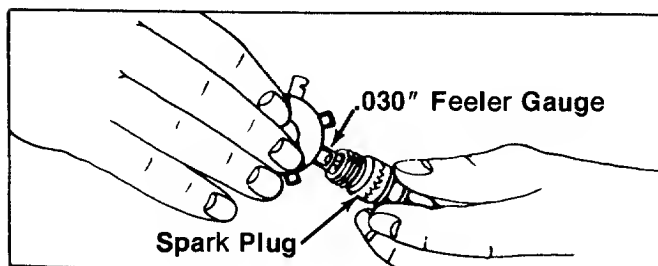
### **BELTS**

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.



Belt tension is automatically maintained by the spring on the variable speed bracket on the drive belts and the belt tension on the deck belt is maintained by the two deck springs.

### **SPARK PLUG**



**FIGURE 26.**

The spark plug should be cleaned and the gap reset to a 0.030-inch clearance every 25 hours of engine operation. (See figure 26.) Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type.



Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

### **REPLACING BLADE**

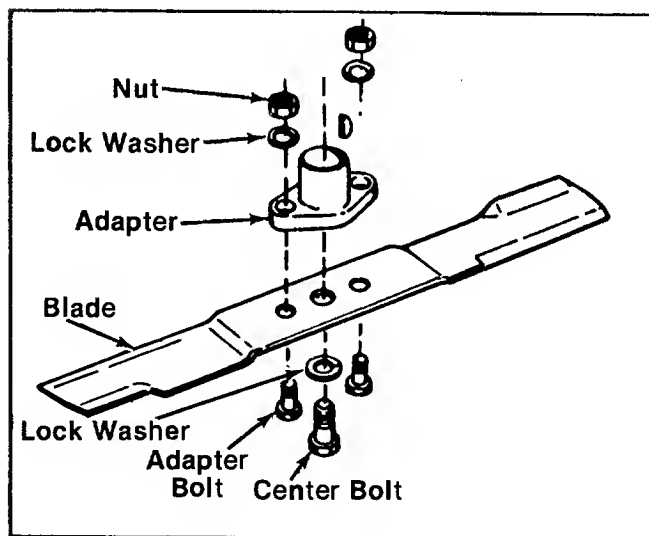


**WARNING**

Before beginning to work on the cutter blade, remove the spark plug from the cylinder.

**Removing and Sharpening Blades.** Remove the center bolt and lock washer. See figure 27. Pull the blade and blade adapter from the blade spindle.

The adapter can be removed from the blade by removing the two adapter bolts, lock washers and nuts.



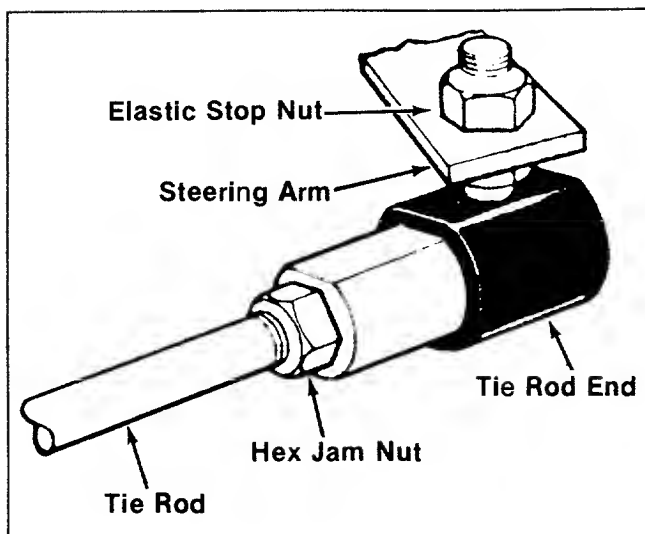
**FIGURE 27.**

### **WHEEL ADJUSTMENT** (See figures 28 and 29.)

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principals have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in follow these steps.

1. Remove the elastic lock nut and drop the tie rod end from the wheel bracket.
2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.



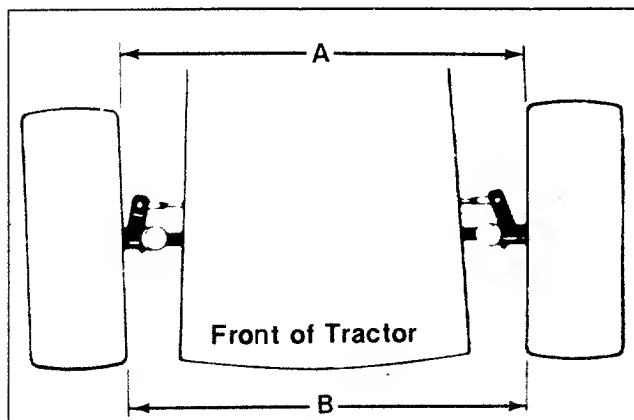
**FIGURE 28.**

Dimension "B" should be approximately 1/8" less than Dimension "A".

- A.) To increase Dimension "B", screw tie rod into tie rod end.
- B.) To decrease Dimension "B", unscrew tie rod from tie rod end.
- C.) Reassemble tie rod. Check dimensions. Readjust if necessary.



To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.



**FIGURE 29.**

## ADJUSTING CARBURETOR CHOKE



**WARNING**

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

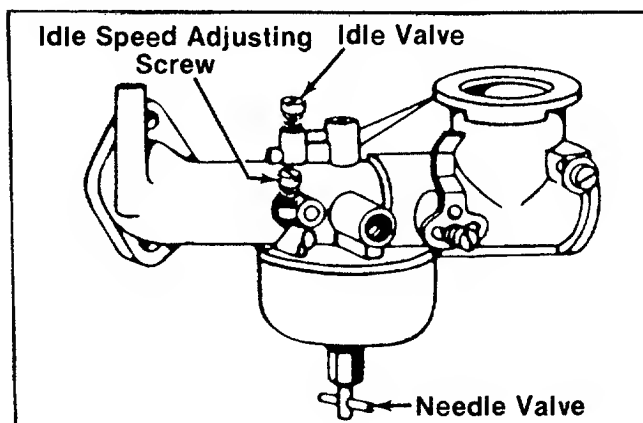
Proper choke operation is dependent upon proper adjustment of remote controls on the powered equipment.

**To Check Operation of Choke-A-Matic Controls:**  
Move control lever to "CHOKE" position. See figure 14.

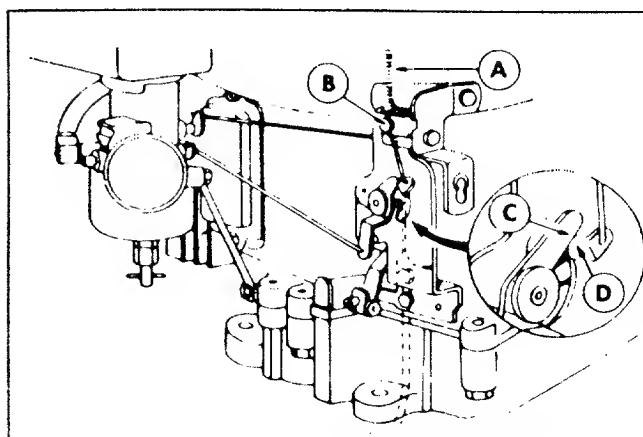
The carburetor choke should be closed.



The air cleaner can be removed to check the operation of the choke.



**FIGURE 30.**



**FIGURE 31.**

### To Adjust:

Place control lever on equipment in "FAST" (High speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 31.

### BRAKE ADJUSTMENT

During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.

The brake is located beside the differential. To test the brake, proceed as follows.

1. Depress the brake pedal and lift the brake lock so the pedal remains depressed. See figure 15.
2. Place the clutch lockout in the "START" position. See figure 16.
3. Try to push the rider. If the rider can be moved, adjust the brake as follows:
  - A. Loosen the nut on the disc brake. See figure 32.
  - B. Turn the adjusting pin clockwise until it stops.
  - C. Back off the adjusting pin one complete turn.
  - D. Tighten the nut.
4. Test the brake. Repeat if necessary.

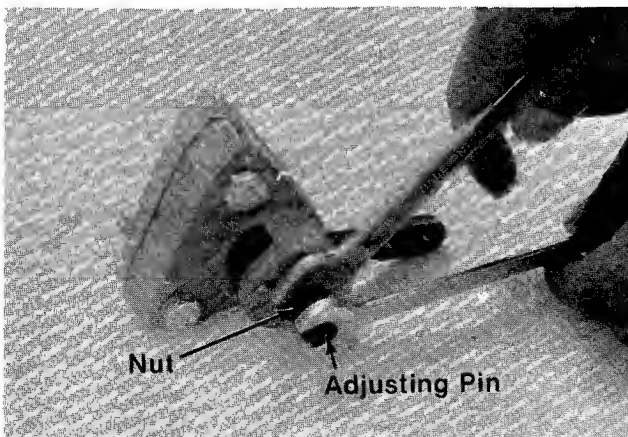


FIGURE 32.

### BATTERY REMOVAL OR INSTALLATION



When removing the battery, follow this order of disassembly to prevent the screwdriver from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

### JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



Failure to use this starting procedure could cause sparking, and the gas in either battery could explode.

### BATTERY MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

### BATTERY STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
3. Store in cold, dry place.
4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

### COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



#### NOTE

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

## BELT REPLACEMENT

1. To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.
2. Disconnect the spark plug wire and ground it against the engine.
3. Remove the battery to prevent acid from leaking.



#### WARNING

Disconnect the negative terminal first and connect last when installing the battery.

### MOWING UNIT BELT REPLACEMENT

1. Place the shift lever in the neutral position. See figure 14.
2. Remove the belt keeper and large bolt on the engine pulley. See figure 33.

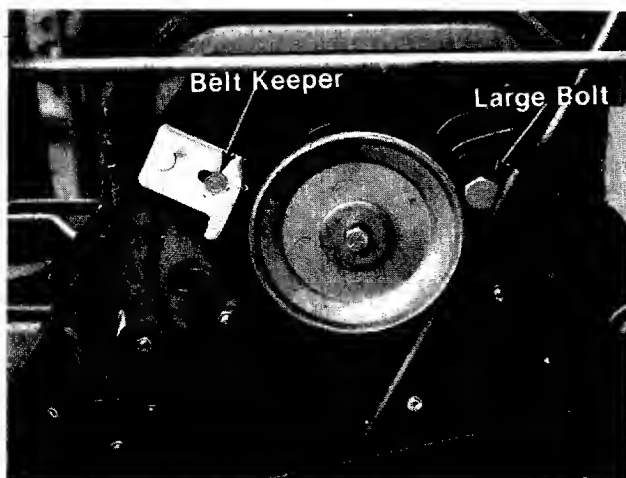


FIGURE 33.

3. Unhook the belt from the engine pulley. See figure 34.

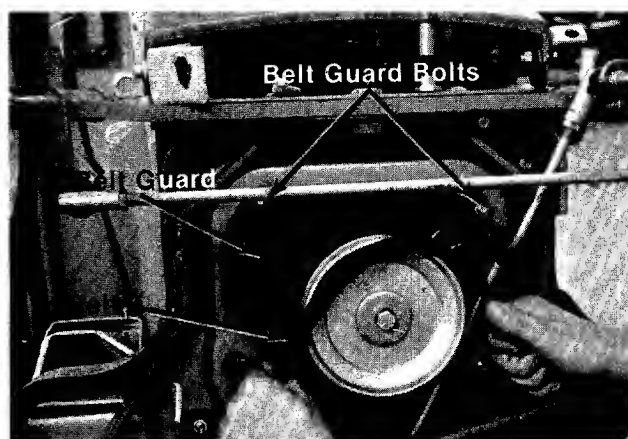


FIGURE 34.

4. Place the lift lever in the engaged position. See figure 15.
5. Unhook the tension springs on both sides of the deck. See figure 35.

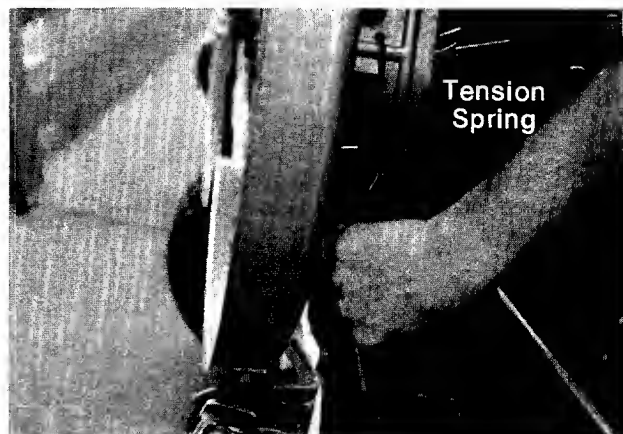
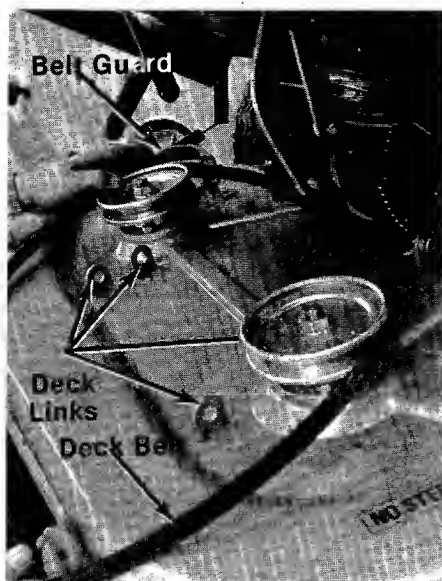


FIGURE 35.

6. Remove the front four deck links from the cutting deck. See figure 36.
7. Remove the belt guards from both deck pulleys. See figure 36.
8. Remove and replace the belt. Reassemble in reverse order.

### TRANSMISSION BELTS REMOVAL

1. Place the lift lever in the disengaged position. See figure 15.
2. Remove the belt keeper and large bolt on engine pulley. See figure 33.
3. Unhook the belt from the engine pulley. See figure 34.
4. Place the lift lever in the engaged position. See figure 15.

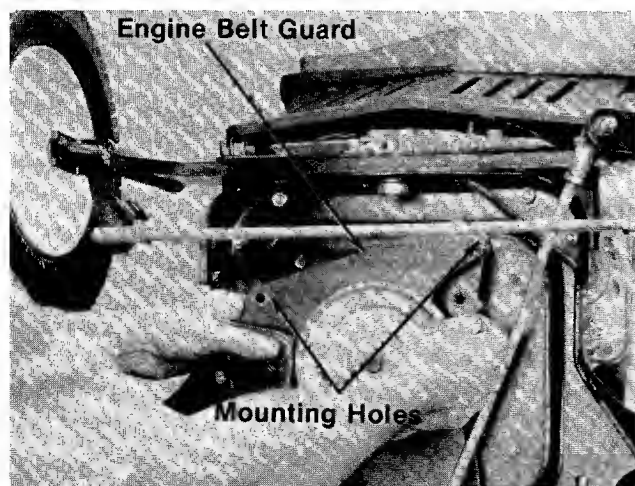


**FIGURE 36.**

5. Unhook the tension springs on both sides of the deck. See figure 35.
6. Remove the front four deck links from the cutting deck. See figure 36.
7. Tip the deck down as shown in figure 36.



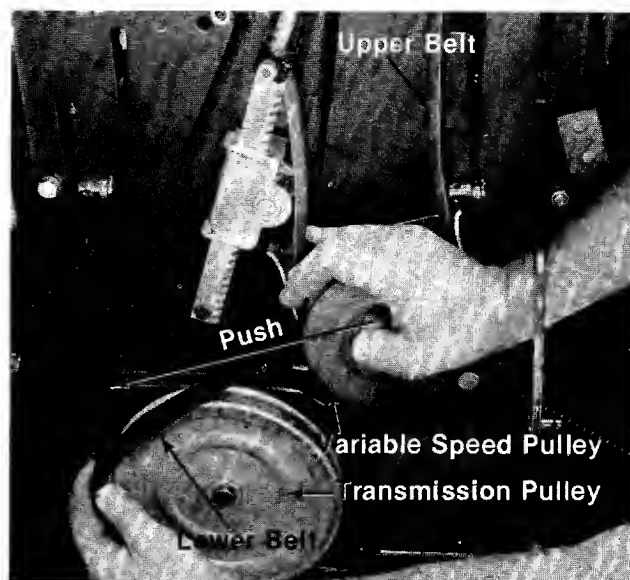
Leave the belt attached to the deck pulleys unless you want to replace it.



**FIGURE 37.**

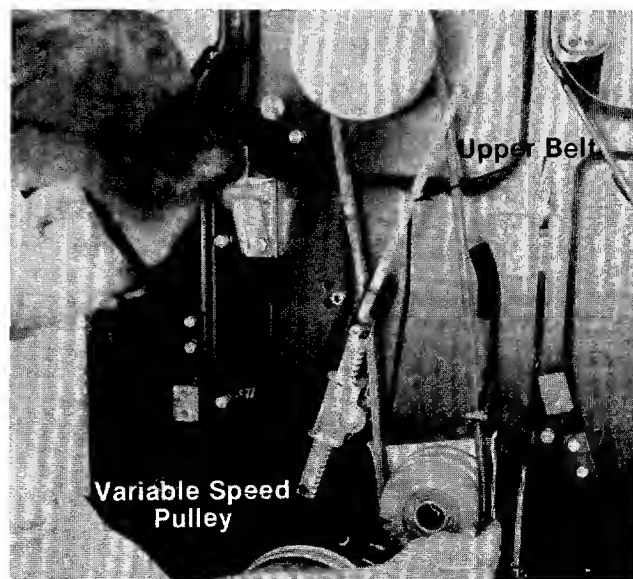
8. Remove the engine belt guard by removing the two front engine mounting bolts. See figure 38.
9. Place the clutch lockout in the "START" position. See figure 16.

10. While pushing the variable speed pulley towards the center of the rider, remove the lower belt from the transmission pulley. See figure 38.



**FIGURE 38.**

11. Slide the movable center section of the variable speed pulley away from the rider and remove the upper belt from the variable speed pulley. See figure 39.



**FIGURE 39.**

12. Unhook the upper belt from the engine pulley and remove. See figure 40.
13. Reassemble in reverse order with new belts.



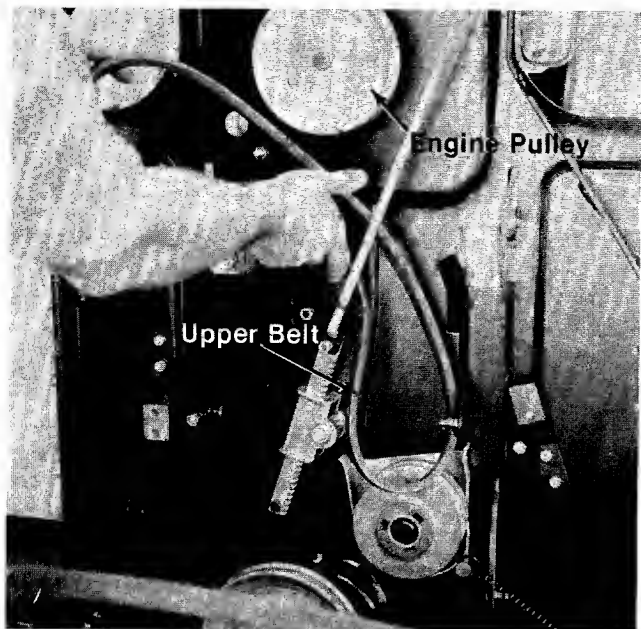


FIGURE 40.

## OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.



Do not drain fuel while smoking, or if near an open fire.

2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
4. Clean the engine and the entire mower thoroughly.
5. Lubricate all lubrication points indicated in figures 22 and 23 then wipe the entire machine with an oiled rag in order to protect the surfaces.

GRASS CATCHER Model No. 191-015A is available as optional equipment for the mowers shown in this manual.



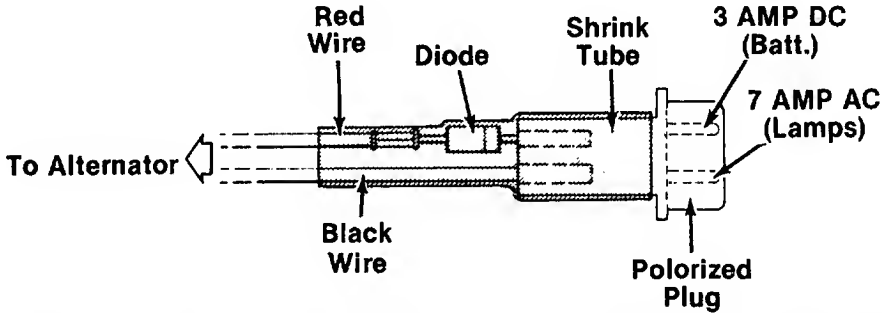
The mower should not be operated without the entire grass catcher or chute deflector in place.



Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0121.

# TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger.</p> <p><b>Trickle Charger.</b> Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C. rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp.</p> <p><b>Alternator</b> (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;">  </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. <b>WARNING:</b> While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. <b>If the engine does not crank:</b> (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

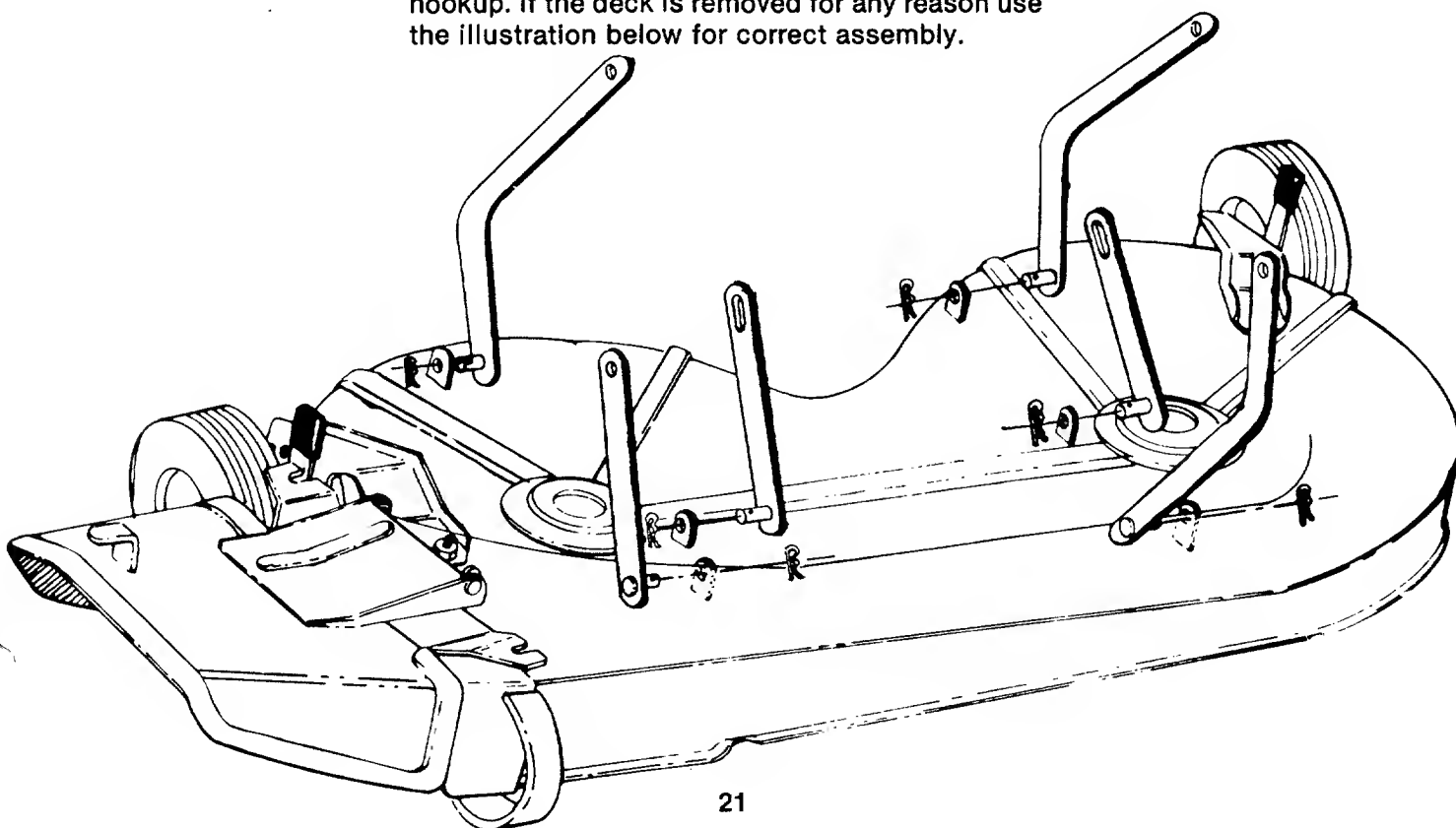
## TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	<b>Stop engine immediately.</b> Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	<b>Stop engine immediately.</b> Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission speed. The slower your ground speed, the better quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

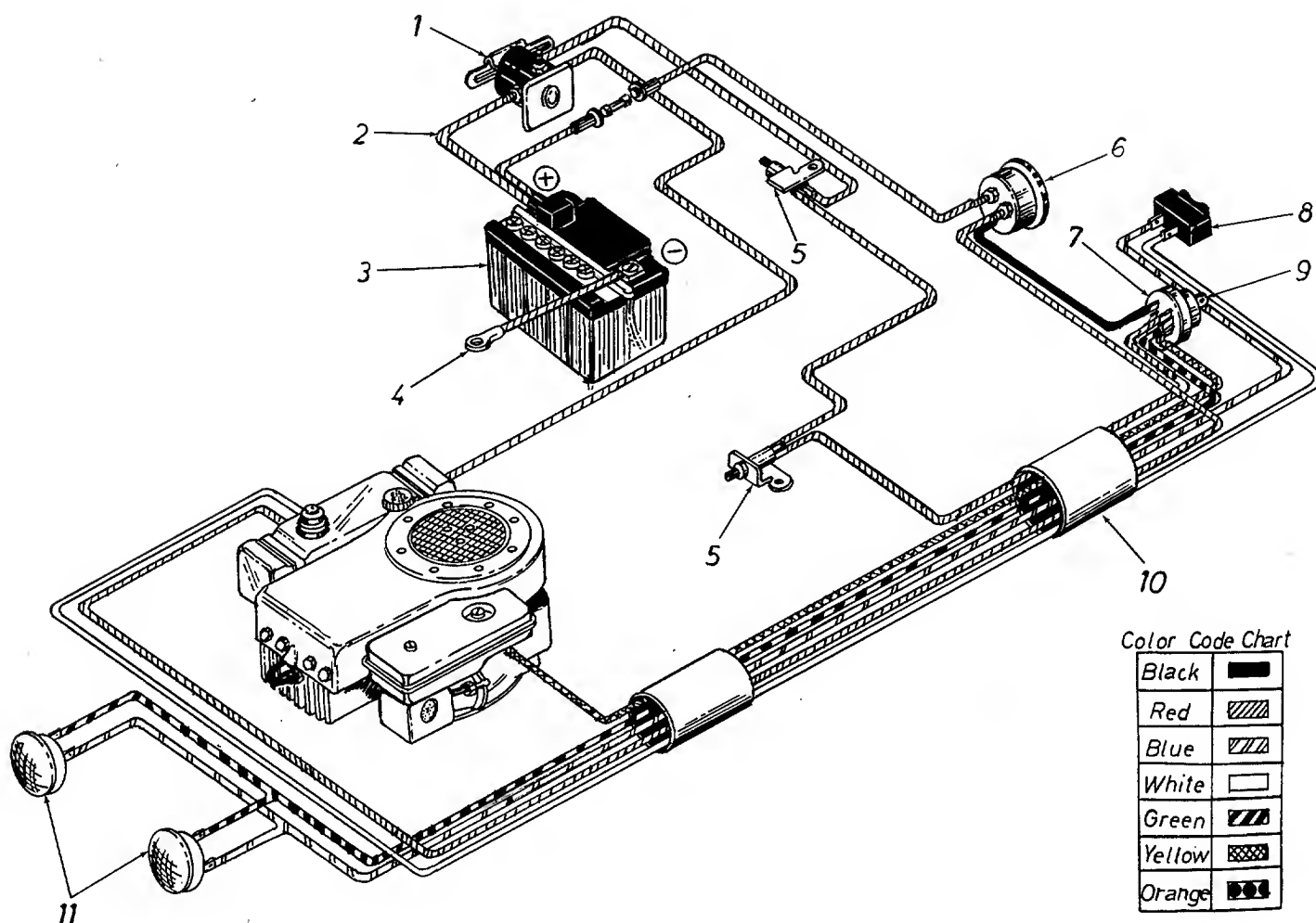
## DECK LINKAGE



Refer to illustration below for proper deck link hookup. If the deck is removed for any reason use the illustration below for correct assembly.



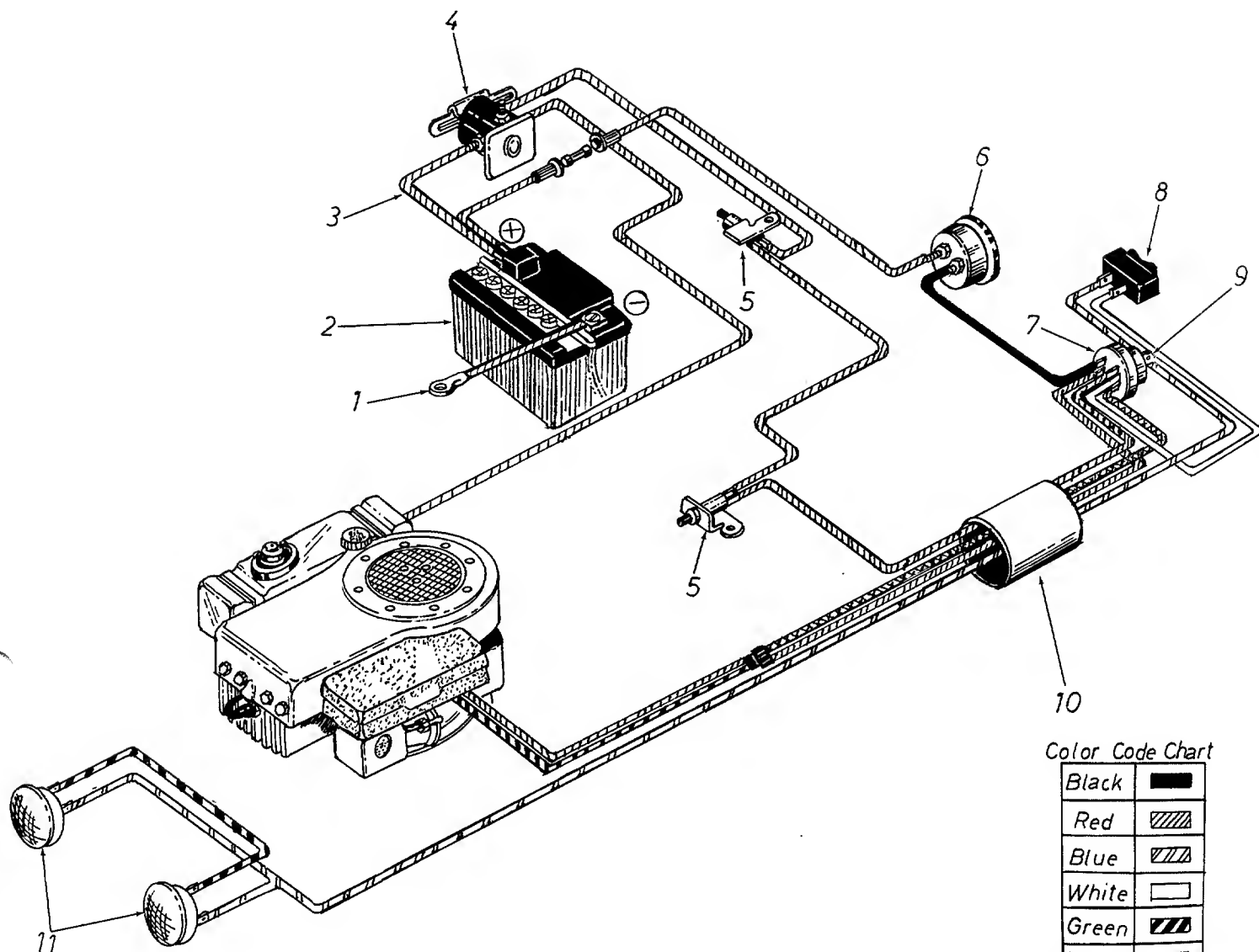
# 131-465-300 ONLY



## BRIGGS AND STRATTON ENGINE ELECTRICAL SYSTEM FOR MODEL 131-465-300 ONLY

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0530	Solenoid	N
2	725-0221	Electric Wire	
3	725-0514	Battery	
4	725-0122	Electric Wire	
5	725-0268	Safety Switch—Black—N.O.	
6	725-0119	Ammeter	
7	725-0267	Ignition Switch	
8	725-0646	Headlight Switch	
9	725-0201	Ignition Key	
10	725-0738	Wire Harness	
11	725-0744	Headlights	N

# 131-466-300 ONLY



Color Code Chart

Black	
Red	
Blue	
White	
Green	
Yellow	
Orange	

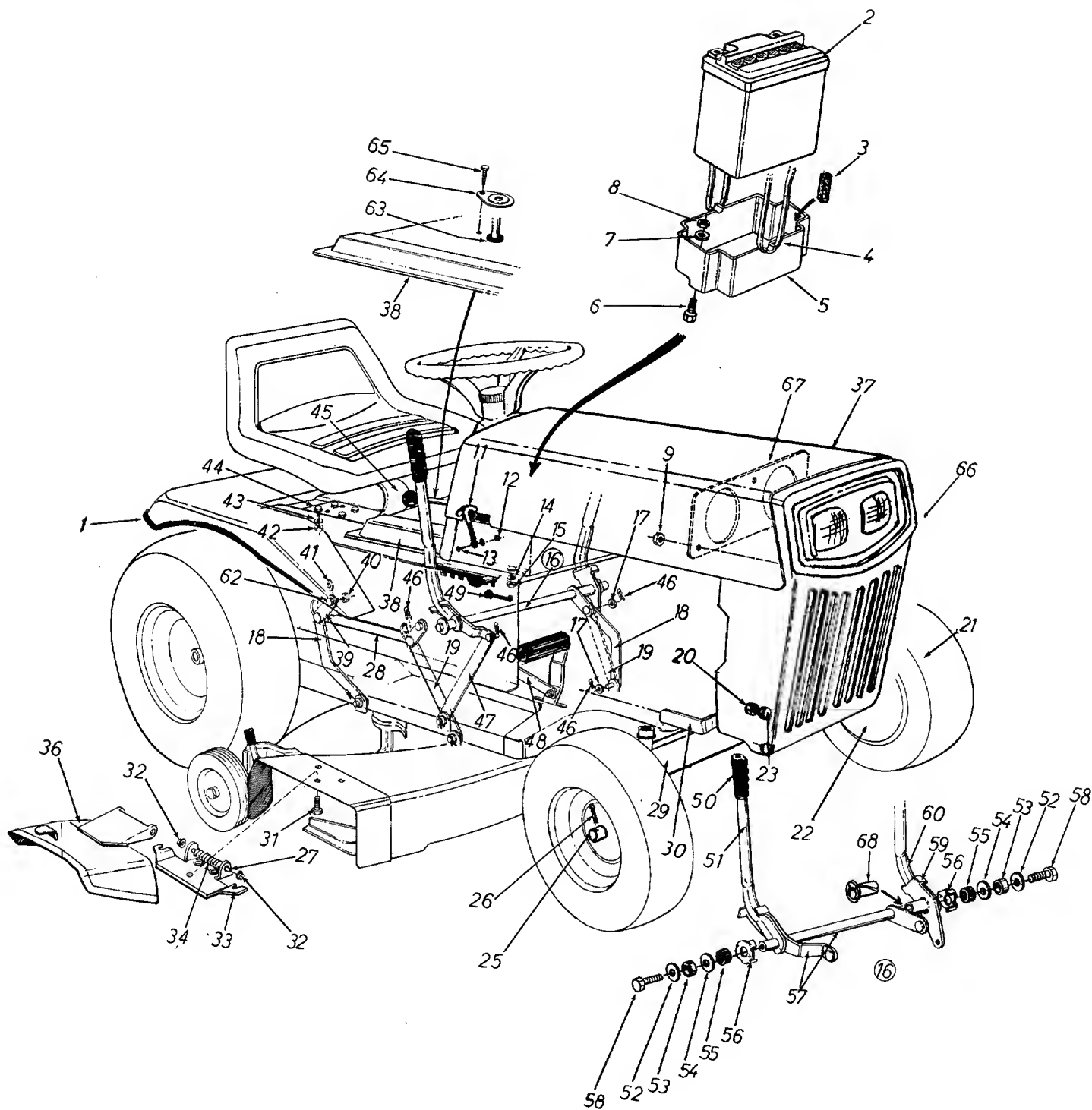
## TECUMSEH ENGINE ELECTRICAL SYSTEM FOR MODEL 131-466-300 ONLY

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0122	Electric Wire	
2	725-0514	12V-Battery	
3	725-0422	Electric Wire	
4	725-0530	Solenoid	
5	725-0268	Safety Switch—Black—N.O.	
6	725-0119	Ammeter	
7	725-0380	Ignition Switch	
8	725-0646	Headlight Switch	
9	725-0201	Ignition Key	
10	725-0659	Wire Harness	
11	725-0744	Headlights	N



# 131-465-300

# 131-466-300



# **PARTS LIST FOR MODELS 131-465-300 AND 131-466-300**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0511		Trim Strip 78" Lg.	N N	34	732-0261		Torsion Spring	
2	725-0514		12V-Battery		35	11633		Chute Cover Ass'y. Comp.	
3	722-0135		PVC Foam 1" x 2" x 1/2"		36	11574		Chute Cover Ass'y.	
4	735-0204		Rubber Band		37	11855	—456	Front Hood	
5	731-0534		Battery Box		38	11840	—456	Upper Frame Cover	
6	710-0377		Hex Sems Bolt 1/4-20 x .62" Lg.		39	09721		Pivot Link Ass'y.	
7	736-0142		Flat Wash.		40	712-0267		Hex Nut 5/16-18 Thd.*	
8	712-0287		Hex Nut 1/4-20 Thd.*		41	736-0264		FI-Wash. .344 I.D. x .62 O.D.	
9	712-0121		Hex Nut 10-24 Thd.*		42	712-0267		Hex Nut 5/16-18 Thd.*	
11	723-0296		Hood Lock Ass'y.		43	736-0119		Spring L-Wash. 5/16" Scr.*	
12	712-0287		Hex Nut 1/4-20 Thd.*		44	710-0198		Hex Hd. Sems Scr. 5/16-18 x .75" Lg.*	
13	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*		45	732-0354		Seat Spring	
14	736-0119		Spring L-Wash. 5/16" Scr.*		46	714-0101		Internal Cotter Pin 1/2" Dia.	
15	712-0267		Hex Nut 5/16-18 Thd.*		47	10904		Lockout Link Ass'y.	
16	—		See Breakdown		48	13875		Parking Brake—Lever Ass'y.—R.H.	
17	736-0192		FI-Wash. .531 I.D. x .93 O.D.		49	726-0121		Push Cap 1/4" Dia.—Black Grip	
18	10349		Deck Link Ass'y.		50	710-0157		Lift Handle R.H.	
19	13636		Deck Link Ass'y.		51	749-0212		L-Wash. 5/16" I.D.*	
20	712-0923		Hex Cent. L-Nut 5/8-18 Thd.		52	736-0119		Spacer .632" I.D. x .88" O.D.	
21	734-0999		Front Wheel Ass'y.—Comp. 13.0 x 5.0		53	748-0273		FI-Wash. .656" I.D. x 1.25" O.D.	
22	734-0495		Front Wheel Tire Only		54	736-0237		Rubber Wash.	
23	734-0986		Front Wheel Rim Ass'y. Only		55	735-0195		Handle Pivot Brkt.	
25	741-0313		Front Wheel Bearing		56	11029		Lift Handle Brkt. Ass'y.	
26	714-0470		Cotter Pin 1/8" Dia. x 1.25" Lg.*		57	13630		Hex Scr. 3/8-16 x .62" Lg.	
27	711-0571		Pivot Pin		58	710-0201		Clutch Handle Brkt. Ass'y.	
28	09735		Connecting Rod 3/16 x 1.00 x 12.5" Lg.		59	11034		Lift Handle L.H.	
29	14198	—456	Pivot Bar Ass'y.		60	11031		Shld. Bolt .473 x .180	
30	12411	—456	Front Pivot Brkt.		62	738-0140		Nylon Bushing	
31	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg.*		63	731-0309		Bushing Cap	
32	726-0106		Push-On Flange Palnut		64	12653		Truss Mach. Scr. #10 x .50" Lg.	
33	11399		Adapter Plate Ass'y.		65	710-0351		Grille	
					66	10793	—456	Head Lamp Retainer	
					67	10795		Flanged Nyliner	
					68	741-0257		34" Deck Ass'y.—Comp.	
						13450			

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

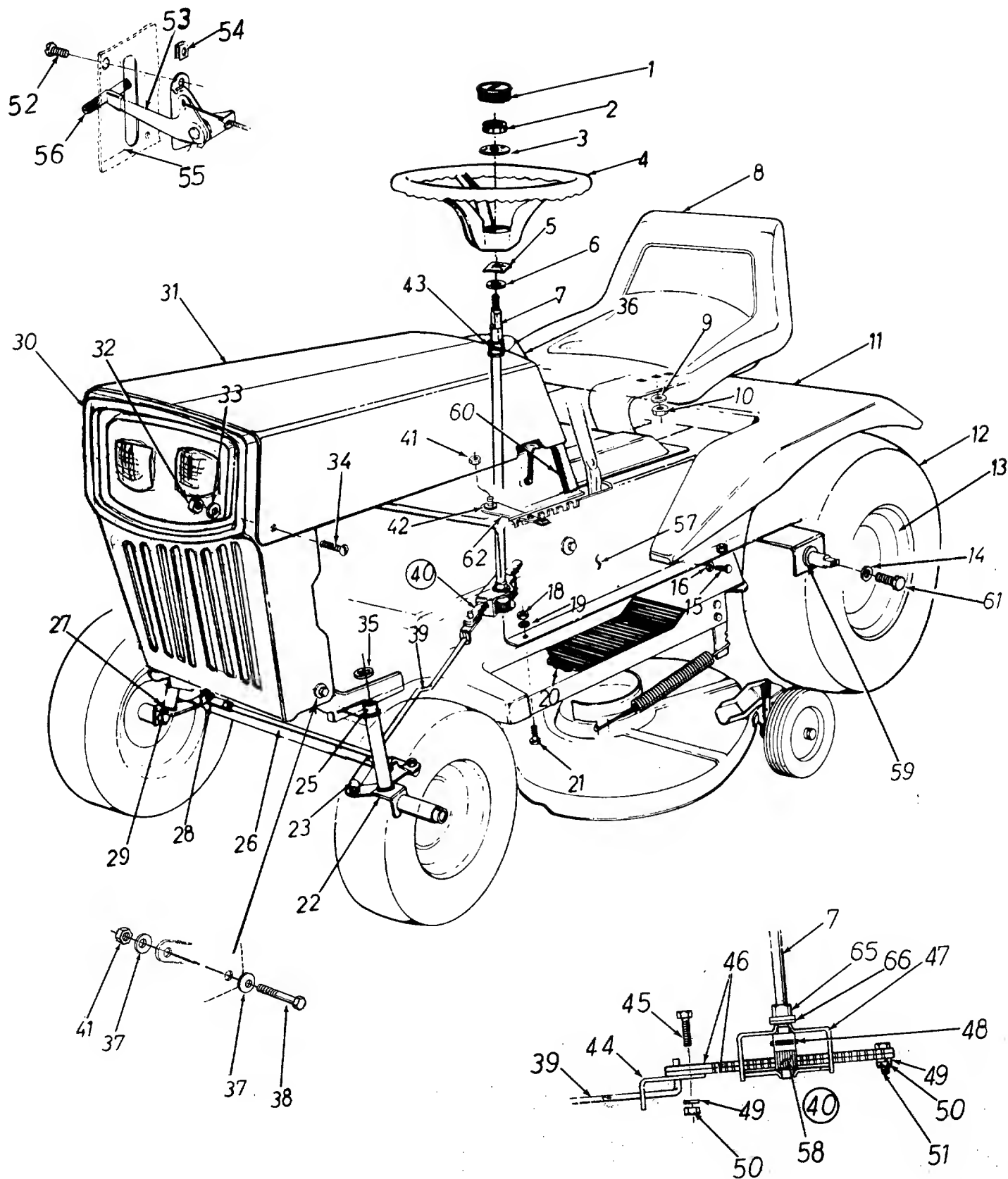
(456—Radiant Tangerine)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Radiant Tangerine Finish—13322 (456).)

## **WHEEL CHART**

FRONT WHEEL			REAR WHEEL		
PART NO.	DESCRIPTION	NEW PART	PART NO.	DESCRIPTION	NEW PART
734-0999	Wheel Ass'y. Complete		734-0592	Wheel Ass'y. Complete	
734-0986	Rim Only with Hub		734-0594	Rim Only	
734-0495	Tire Tubeless 13 x 5.00		734-0294	Tire Tubeless 18 x 6.50-8	
734-0255	Air Valve		734-0255	Air Valve	
741-0313	Bearing		734-0310	Inner Tube (Service Only)	
734-0249	Inner Tube (Service Only)		741-0199	Bearing	

# **131-465-300** **131-466-300**



# **PARTS LIST FOR MODELS 131-465-300 AND 131-466-300**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		35	726-0159		Push Nut	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		36	14450		Dash Panel Ass'y.	N
3	736-0219		Bell. Wash. .400 I.D. x 1.13 O.D.		37	736-0105		Bell-Wash.	
4	731-0219		12.0 Inch Steering Wheel		38	710-0253		Hex Bolt 3/8-16 x 1.00" Lg.*	
5	712-0222		Push Nut 5/8" Dia.		39	747-0138		Steering Rod	
6	736-0174		Wave Wash. .660 I.D. x .88 O.D.		40	717-0294		Steering Ass'y. Breakdown	
7	738-0200		Steering Shaft		41	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
8	757-0264		Seat Ass'y. Comp.		42	735-0126		Rubber Wash.	
9	736-0921		Spring L-Wash. 1/2" Scr.*		43	741-0225		Hex Flange Brg. .62" I.D. Bronze	
10	712-0206		Hex Nut 1/2-13 Thd.*		44	12372		Steering Rod Brkt.	
11	09087 —456		Rear Fender		45	710-0412		Hex Scr. 1/4-28 x .75" Lg.*	
12	734-0592		Rear Wheel Ass'y. Comp. 18.0 x 6.50-8		46	11048		Steering Segment	
	734-0294		Rear Wheel Tire Only 18.0 x 6.50-8		47	11074		Steering Housing Ass'y.	
	734-0255		Air Valve—Tubeless		48	715-0134		Spring Pin Spiral 3/16" Dia. x 1.50" Lg.	
13	734-0594		Rear Wheel Rim Ass'y.		49	736-0329		Spring L-Wash. 1/4" Scr.*	
14	736-0242		Bell. Wash.		50	712-0117		Hex Nut 1/4-28 Thd. Lock*	
15	710-0258		Hex Scr. 1/4-20 x .62" Lg.*		51	710-0412		Hex Scr. 1/4-28 x .75" Lg.*	
16	736-0329		Spring L-Wash. 1/4" Scr.*		52	710-0227		Hex AB Tapp Scr. #8 x .50" Lg. (465A)	
18	712-0267		Hex Nut 5/16-18 Thd.*			710-0351		Truss Mach. Scr. 10Z x .50" Lg. (466A)	
19	736-0119		Spring L-Wash. 5/16" Scr.*		53	746-0357		Throttle Control—Comp. (465A)	
20	723-0241		Foot Pad 15.75" Lg. x 4.0" Wide			746-0235		Throttle Control—Comp. (466A)	
21	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		54	712-0147		Speed Nut #10-24 U-Type (466A)	
22	14457		Front Axle Ass'y. L.H.	N	55	14450		Dash Panel Ass'y.	N
23	723-0156		Ball Joint Ass'y.		56	722-0111		Knob Only—Throttle Control	
25	714-0470		Cotter Pin 1/8" Dia. x 1.25" Lg.*		57	13474		Upper Frame	
26	711-0613		Tie Rod		58	748-0203		12 Teeth Spur Gear	
27	741-0313		Flange Brg. 6.30 I.D.		59	736-0134		Fl-Wash.	
28	723-0156		Ball Joint Ass'y.		60	731-0516		Vinyl Blk. Strip for Dash 12.0' Lg.	
29	14456		Front Axle Ass'y. R.H.	N	61	710-0627		Hex Scr. w/Lock 5/16"-14 x .75" Lg.	
30	10793 —456		Grille—Front		62	11027		Handle Stop Brkt.	
31	11836 —456		Front Hood		65	741-0226		Hex Flange Bearing .50 I.D.	
32	712-0287		Hex Nut 1/4-20 Thd.*		66	736-0192		Flat Washer .531 I.D. x .93 O.D.	
33	736-0329		Spring L-Wash. 1/4" Scr.*						
34	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*						

(456—Radiant Tangerine)

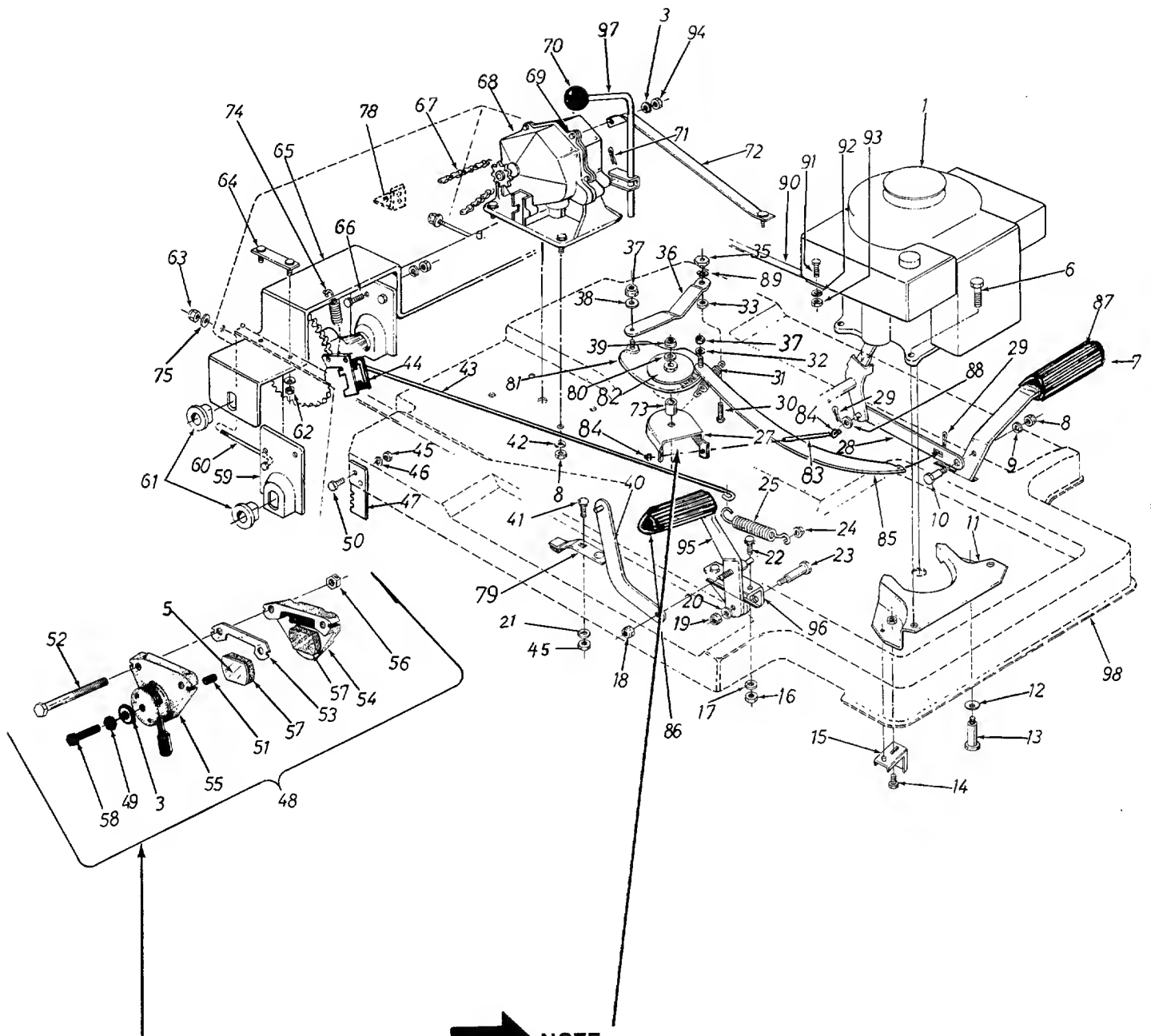
\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Radiant Tangerine Finish—13322 (456).)



This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

**131-465-300**  
**131-466-300**



**NOTE:** If for any reason disc brake is disassembled, be sure round end of push pin (Ref. No. 51) is toward the cam lever (Ref. No. 55).

**NOTE**  
 Must be lubricated with dry-slide or oil every 25 hours.



# **PARTS LIST FOR MODELS 131-465-300 AND 131-466-300**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine		50	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
3	HU-20-9764		Washer		51	HU-39-13774		Pin, Actuator	
5	HU-25-13808		Backing Plate		52	HU-37-13821		Bolt	
6	710-0442		Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg.*		53	HU-39-13946		Spacer	
7	14220		Clutch Pedal Ass'y.		54	HU-16-13807		Anvil	
8	712-0267		Hex Nut 5/16-18 Thd.*		55	HU-39-14097		Housing with Lever and Grove Pin	
9	736-0119		L-Wash. 5/16" Scr.*		56	HU-37-9238		Lock Nut	
10	738-0140		Shld. Scr. .437 Dia. x .180		57	HU-24-13772		Lining	
11	12654		Engine Belt Guard Ass'y.		58	HU-39-13775		Pin, Adjuster	
12	736-0105		Bell. Wash. 3/8" Scr.		59	13457		Rear Axle Plate	
13	738-0215		Shld. Scr. .498" Dia. x 3.00" Lg.*		60	710-0437		Chain Adj. Link 5/16-18 x 4.38" Lg.	
14	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		61	741-0199		Plastic Flange Brg. w/Flats .753 I.D.	
15	12160		Belt Keeper Ass'y.		62	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
16	712-0267		Hex Nut 5/16-18 Thd.*		63	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
17	736-0119		L-Wash. 5/16" Scr.*		64	10360		Axle Bolt Plate Ass'y.	
18	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		65	13455		Rear Axle Brkt. Ass'y.	
19	712-0266		Hex Cent. L-Nut 3/8-16 Thd.*		66	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
20	736-0169		L-Wash. 3/8" Scr.*		67	713-0239		#420 Chain 1/2" Pitch x 89 Links	
21	736-0329		L-Wash. 1/4" Scr.*		68	717-0222		Single Speed Trans. Ass'y.	
22	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		69	710-0412		Hex Hd. Cap Scr. 1/4-28 x .75" Lg.*	
23	738-0373		Shld. Scr. .496" Dia. x .525" Lg.		70	720-0165		Ball Knob—Black	
24	726-0100		Push Nut 3/8" Rod		71	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
25	732-0245		Brake Spring		72	10396		Trans. Support Brkt. Ass'y.	
27	11066		Vari. Spd.—Belt Guard Ass'y.		73	750-0289		Spacer .50" I.D. x .27" Lg.	
28	12700		Clutch Connecting Brkt. Ass'y.		74	732-0265		Spring .38 O.D. x 3.25	
29	714-0507		Cotter Pin 3/32 Dia. x .75" Lg.*		75	736-0264		FI-Wash. .344 I.D. x .62 O.D.	
30	710-0376		Hex Scr. 5/16-18 x 1.00" Lg.*		78	09963		Hitch Brkt.	
31	732-0208		Variable Drive Spring		79	761-0168		Blade Brake Ass'y. 1.90 High	
32	736-0264		FI-Wash. .344 I.D. x .62 O.D. x .063		80	736-0921		L-Wash. 1/2" Scr.*	
33	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		81	12705		Variable Sp. Eccenter Ass'y.	
35	711-0404		Shld. Nut		82	11070		Variable Sp. Plate Ass'y.	
36	12711		Variable Speed—Link		83	711-0571		Pivot Pin	
37	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		84	726-0106		Push Nut 1/4" Rod	
38	736-0264		FI-Wash. .344 I.D. x .62 O.D.		85	12710		Variable Spd. Control Brkt.	
39	712-0922		Hex Jam Nut 1/2-20 Thd.		86	735-0201		Brake Pedal Pad	
40	13875		Park. Brake—Lever Ass'y. R.H.		87	735-0201		Clutch Pedal Pad	
41	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*		88	736-0140		FI-Wash. .385 I.D. x .62 O.D. x .063	
42	736-0119		L-Wash. 5/16" Scr.*		89	736-0232		Wave Wash. .530 I.D. x .78 O.D. x .013	
43	747-0277		Brake Rod .25" Dia. x 23.50" Lg.		90	11095		Engine Brace	
44	13459		Disc Brake Brkt. Ass'y.		91	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	
45	712-0287		Hex Nut 1/4-20 Thd.*		92	736-0119		L-Wash. 5/16" Scr.*	
46	736-0329		L-Wash. 1/4" Scr.*		93	712-0267		Hex Nut 5/16-18 Thd.*	
47	10410		Spring Bracket		94	712-0138		Hex Nut 1/4-28 Thd.	
48	761-0167		Disc Brake Ass'y.—Comp.		95	14219		Brake Pedal Ass'y.	
49	HU-37-13818		Nut		96	11039		Pedal U-Brkt. Ass'y.	
					97	11853		Trans. Shift Lever	
					98	11090		Lower Frame Ass'y.	

(456—Radiant Tangerine)

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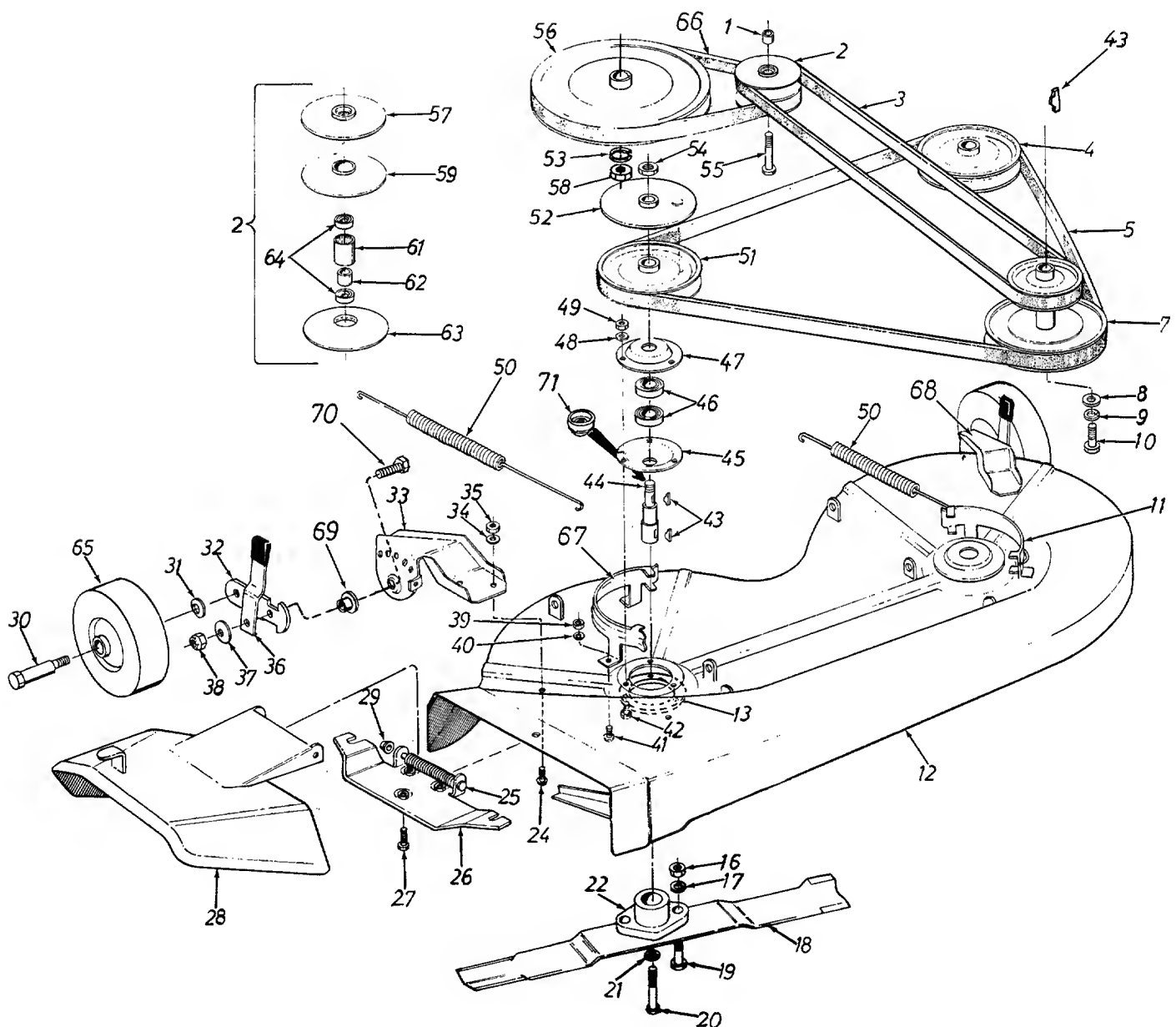
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**131-465-300**  
**131-466-300**



**IMPORTANT**

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.



**PARTS LIST FOR MODELS 131-465-300 AND 131-466-300**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	711-0494		Spacer .510 I.D. x .760 O.D. x .390		37	736-0219		Belleville Washer	
2	10438		Variable Spd. Pulley Ass'y.		38	712-0181		Hex Jam L-Nut 3/8-16 Thd.	
3	754-0138		"V"-Belt 21/32 x 50" Lg.		39	712-0287		Hex Nut 1/4-20 Thd.*	
4	756-0251		Pulley 4.75 O.D. (Deck)		40	736-0329		L-Wash. 1/4" Scr.*	
5	754-0151		"V"-Belt 21/32 x 67" Lg.		41	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*	
7	756-0307		Two Step Engine Pulley		42	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
8	736-0235		FI-Wash. .406 I.D. x 1.25 O.D.		43	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
9	736-0169		L-Wash. 3/8" Scr.*		44	711-0255		Blade Spindle	
10	710-0151		Hex Hd. Cap Scr. 3/8-24 x 2.00"—Grade 5		45	08253		Bearing Housing	
11	12672		Belt Guard—L.H. (Deck)		46	741-0919		Ball Brg. .787 I.D. x 1.85 O.D.	
12	13451		34 In. Deck Ass'y.		47	08253		Bearing Housing	
13	09164		Deck Reinforcement Plate		48	736-0329		L-Wash. 1/4" Scr.	
16	712-0123		Hex Nut 5/16-24 Thd.*		49	712-0287		Hex Nut 1/4-20 Thd.*	
17	736-0119		L-Wash. 5/16" Scr.*		50	732-0307		Spring .75 O.D. x 11.0" Lg. (Deck)	
18	742-0120		17.0 In. Blade		51	756-0251		Pulley 4.75 O.D. (Deck)	
19	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg. H.T.		52	09322		Blade Brake Disc	
20	710-0459		Hex Hd. Cap Scr. 3/8-24 x 1.50" Lg. H.T.		53	736-0921		L-Wash. 1/2" Scr.*	
21	736-0217		L-Wash. 3/8" Scr. H.D.		54	712-0261		Hex Jam Nut 5/8-11 Thd.	
22	10769		Blade Adapter Kit		55	710-0515		Hex Hd. Cap Scr. 1/2-20 x 3.50" Lg.*	
24	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*		56	756-0174		Trans. Split Pulley .50" I.D.	
25	711-0571		Pivot Pin		57	748-0177		Sheave Half	
26	11399		Adapter Plate Ass'y.		58	712-0922		Hex Jam Nut 1/2-20 Thd.*	
27	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg.*		59	748-0181		Movable Sheave Part Ass'y.	
28	11574		Chute Cover Ass'y.		61	750-0144		Steel Tubing	
29	726-0106		Push Nut 1/4" Rod		62	750-0146		Spacer .520 I.D. x .692 O.D.	
30	738-0373		Shld. Scr. .459 Dia. x 1.53" Lg.		63	748-0177		Sheave Half	
31	736-0105		Belleville Washer		64	741-0139		Ball Brg. .50 I.D. x 1.38 O.D.	
32	10937		Wheel Pivot Bar		65	734-0973		Wheel Ass'y. 5.0" Dia. (Deck)	
33	09080		Wheel Brkt. Ass'y.—R.H. (Deck)		66	754-0136		V-Belt 21/32 x 31" Lg.	
34	736-0329		L-Wash. 1/4" Scr.*		67	12673		Belt Guard—R.H. (Deck)	
35	712-0287		Hex Nut 1/4-20 Thd.*		68	09082		Wheel Brkt. Ass'y.—L.H. (Deck)	
36	14082		Spring Lever Ass'y. w/Knob		69	748-0279		Shoulder Spacer	
					70	710-0342		Hex Bolt 3/8-16 x 1.00" Lg.*	
					71	13703		Bearing Shield	

(456—Radiant Tangerine)

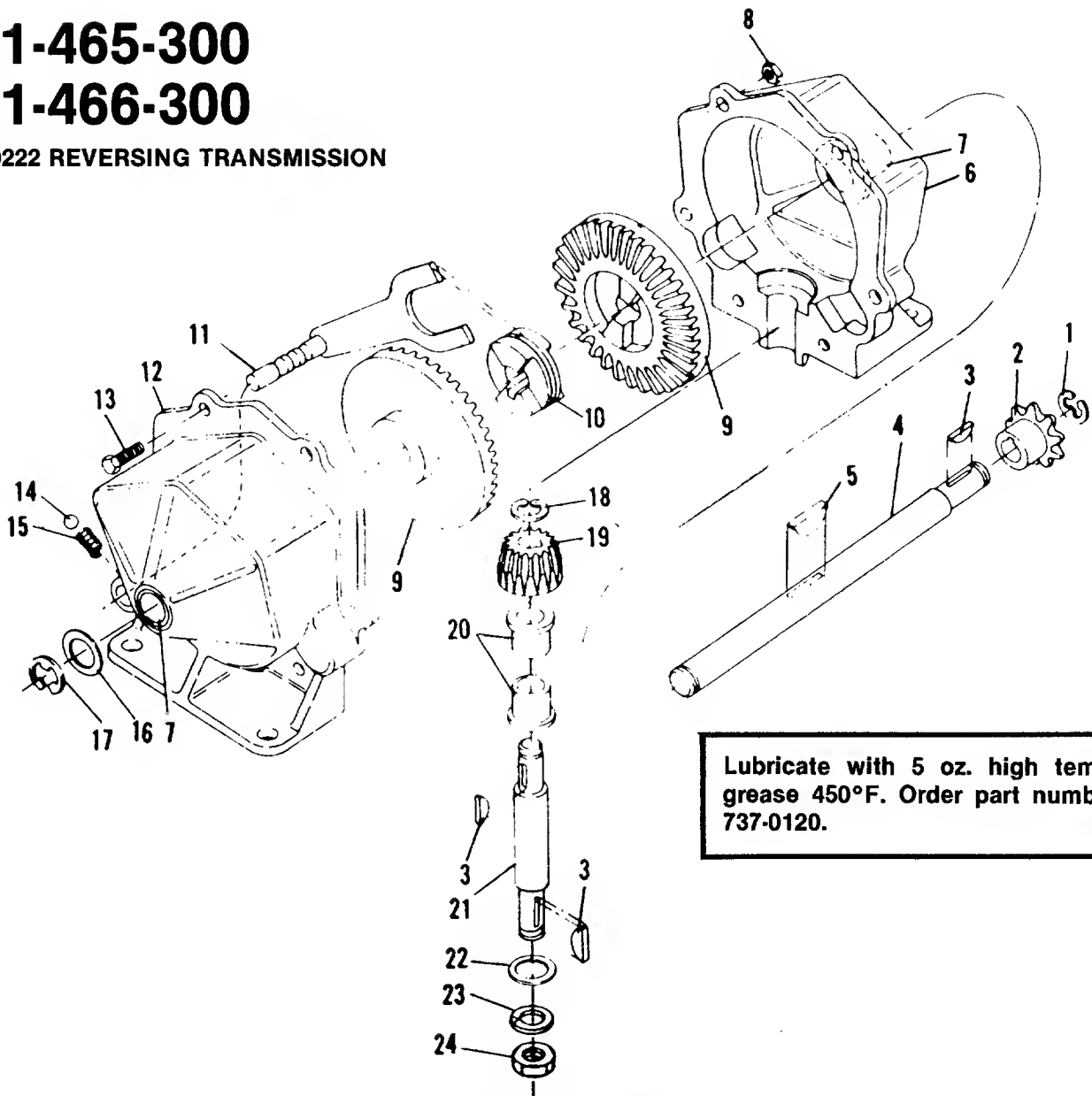
\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

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# 131-465-300

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## 717-0222 REVERSING TRANSMISSION

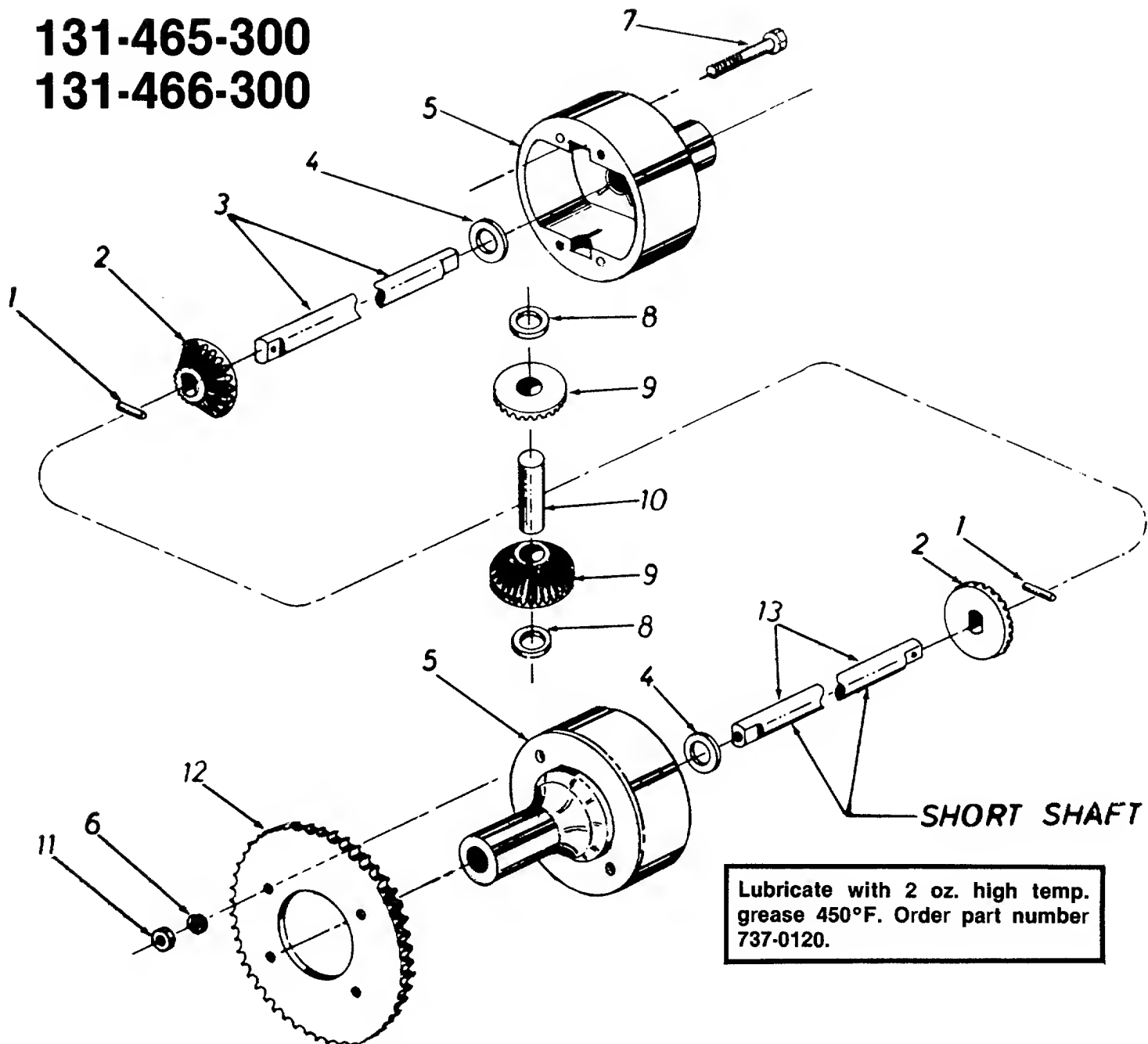


### PARTS LIST FOR REVERSING TRANSMISSION 717-0222

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW REF. PART NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	716-0104		E-Ring for .500" Dia. Shaft	14	741-0862		Detent Ball	
2	748-0204		#41 Sprocket Center 8 Tooth	15	732-0863		Detent Spring	
3	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.	16	736-0116		Fl-Wash. .635 I.D. x .93 O.D.	
4	711-0854		Output Shaft	17	716-0106		E-Ring for .625" Dia. Shaft	
5	714-0126		#9 Hi-Pro Key 3/16 x 3/4" Dia.	18	716-0865		Snap Ring for .500" Dia. Shaft	
6	717-0123		Transmission Case—L.H. Complete	19	748-0866		Pinion Gear	
7	748-0855		Flange Bearing	20	748-0867		Bearing .627 I.D.	
8	712-0117		Hex Centerlock 1/4-28	21	738-0159		Pinion Shaft	
9	748-0856		Bevel Gear	22	736-0192		Fl-Wash. .531 I.D. x .93 O.D.	
10	748-0857		Clutch Collar	23	736-0921		L-Wash. 1/2" Scr.*	
11	08583		Shift Yoke Ass'y.	24	712-0922		Hex Jam Nut 1/2-20 Thd.	
12	717-0124		Transmission Case—R.H.—Comp. (With Detent Hole)	25	737-0120		Grease—High Temp. 450°F. (5 oz.)	
13	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg.*	26	717-0222		Transmission Complete	

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

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**131-466-300**



**PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0330**

REF. NO.	PART NO.	Qty. Req'd.	DESCRIPTION	NEW PART
1	715-0247	2	Spring Pin Spiral 3/16" Dia. x 1.00" Lg.	
2	748-0185	2	Gear—Double "D" Hole	
3	738-0250	1	Shaft—Long 17.01" Lg.	
4	736-0188	2	Fl-Wash. .760 I.D. x 1.49 O.D.	
5	717-0341	2	Housing Half	
6	736-0119	2	L-Wash. 5/16" Scr.*	
7	710-0526	2	Hex Scr. 5/16-24 x 4.00" Lg.	
8	736-0187	2	Fl-Wash. .640 I.D. x 1.24 O.D.	
9	748-0158	2	Gear—Round Hole	
10	711-0276	1	Drive Pin	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	09133	1	Sprocket—60 Tooth	
13	738-0249	1	Shaft—Short 9.65" Lg.	

# PARTS INFORMATION

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

**NOTE:** If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

<b>ALABAMA</b>	<b>BIRMINGHAM</b>
Auto Electric & Carburetor Co. ....	2625 4th Ave. S. .... 35233
<b>ARKANSAS</b>	<b>FORT SMITH</b>
Mity Mite Motors, Inc. ....	4515 S. 16th St. .... 72901
	<b>NORTH LITTLE ROCK</b>
Sutton's Lawn Mower Shop ....	Rt. 4, Box 368 .... 72117
<b>CALIFORNIA</b>	<b>PORTERVILLE</b>
Billious. ....	75 North D Street .... 93257
	<b>SAN FRANCISCO</b>
J.W. Jewett Co. ....	981 Folsom St. .... 94107
<b>COLORADO</b>	<b>DENVER</b>
Spitzer Industrial Products Co. .	Box 59, 43 W. 9th Ave. . 80201
<b>FLORIDA</b>	<b>JACKSONVILLE</b>
Radco Distributors ....	4909 Victor St.
	Box 5459 .... 32207
	<b>OPA LOCKA</b>
Small Eng. Dist. ....	2351 N.W. 147th St. . 33054
<b>GEORGIA</b>	<b>EAST POINT</b>
East Point Cycle & Key ....	2834 Church St. .... 30344
<b>ILLINOIS</b>	<b>LYONS</b>
Keen Edge Co. ....	8615 Ogden Ave. .... 60534
<b>INDIANA</b>	<b>ELKHART</b>
Parts & Sales Inc. ....	2101 Industrial Pkwy. . 46514
<b>IOWA</b>	<b>DUBUQUE</b>
Power Lawn & Garden Equip. .	2551 J.F. Kennedy .... 52001
<b>LOUISIANA</b>	<b>NEW ORLEANS</b>
Suhren Engine Co. ....	8330 Earhart Blvd. .... 70118
<b>MARYLAND</b>	<b>TAKOMA PARK</b>
Center Supply Co. ....	6867 New Hampshire Ave. .... 20012
<b>MASSACHUSETTS</b>	<b>SPRINGFIELD</b>
Morton B. Collins Co. ....	300 Birnie Ave. .... 01107
<b>MICHIGAN</b>	<b>LANSING</b>
Lorenz Service Co. ....	2500 S. Pennsylvania . 48910
	<b>MOUNT CLEMENS</b>
Power Equipment Dist. ....	36463 South Gratiot . 48043
<b>MINNESOTA</b>	<b>HOPKINS</b>
Hance Distributing Inc. ....	420 Excelsior Ave. W. . 55343
<b>MISSISSIPPI</b>	<b>BILOXI</b>
Biloxi Sales & Service, Inc. ....	506 Caillavet St. .... 39533
<b>MISSOURI</b>	<b>KANSAS CITY</b>
Automotive Equip. Service ....	3117 Holmes St. .... 64109
	<b>ST. JOSEPH</b>
Ross-Frazier Supply Co. ....	8th and Monterey .... 64503
	<b>ST. LOUIS</b>
Henzler, Inc. ....	2015 Lemay Ferry Road 63125
<b>NEW JERSEY</b>	<b>BELLMAWR</b>
Lawnmower Parts Inc. ....	717 Creek Rd. .... 08030
<b>NEW YORK</b>	<b>CARTHAGE</b>
Gamble Dist., Inc. ....	West End Ave. .... 13619

## BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

<b>NORTH CAROLINA</b>	<b>GOLDSBORO</b>
Smith Hardware Co. ....	515 N. George St. .... 27530
	<b>GREENSBORO</b>
Dixie Sales Company ....	335 N. Green .... 27402
<b>OHIO</b>	<b>CARROLL</b>
Stebe's Mid-State Mower Supply .	Box 366, 71 High St. . 43112
	<b>CLEVELAND</b>
Bleckrie, Inc. ....	7900 Lorain Ave. .... 44102
	<b>WADSWORTH</b>
National Central ....	687 Seville Rd. .... 44281
	<b>YOUNGSTOWN</b>
Burton Supply Co. ....	1301 Logan Ave.
	Box 929 .... 44501
<b>OKLAHOMA</b>	<b>MUSKOGEE</b>
Victory Motors, Inc. ....	605 S. Cherokee .... 74401
	<b>OKLAHOMA CITY</b>
Forest Sales Inc. ....	6415 N. Olie .... 73116
<b>OREGON</b>	<b>PORTLAND</b>
Kenton Supply Co. ....	8216 N. Denver Ave. . 97217
<b>PENNSYLVANIA</b>	<b>CHESTER</b>
Stull Equipment Corp. ....	742 W. Front St. .... 19013
	<b>HARRISBURG</b>
EECO Inc. ....	4021 N. 6th St. .... 17110
	<b>PHILADELPHIA</b>
Thompson Rubber Co. ....	5222-24 N. Fifth St. . 19120
	<b>PITTSBURGH</b>
Bluemont Co. ....	11125 Frankstown Rd. . 15235
	<b>PUNXSUTAWNEY</b>
Frank Roberts & Sons ....	R.D. 2 .... 15767
<b>TENNESSEE</b>	<b>KNOXVILLE</b>
Master Repair Service ....	2000 Western Ave. .... 37921
	<b>MEMPHIS</b>
American Sales & Service, Inc. .	3035-43 Bellbrook .... 38116
<b>TEXAS</b>	<b>DALLAS</b>
Marr Brothers, Inc. ....	423 E. Jefferson .... 75203
	<b>FORT WORTH</b>
Woodson Sales Corp. ....	1702 N. Sylvania .... 76111
	<b>HOUSTON</b>
Bullard Supply Co. ....	2409 Commerce St. . 77003
	<b>SAN ANTONIO</b>
Catto & Putty, Inc. ....	414 Live Oak .... 78298
<b>UTAH</b>	<b>SALT LAKE CITY</b>
A-1 Engine & Mower Co. ....	437 E. 9th St. .... 84111
<b>VERMONT</b>	<b>BURLINGTON</b>
Vermont Hdwe. Co. Inc. ....	180 Flynn Ave. .... 05401
<b>VIRGINIA</b>	<b>RICHMOND</b>
RBI Corp. ....	963 Myers St. .... 23260
<b>WASHINGTON</b>	<b>SEATTLE</b>
Bailey's Inc. ....	1414 14th Ave. .... 98102
<b>WEST VIRGINIA</b>	<b>CHARLESTON</b>
Young's, Inc. ....	233 Virginia St., E. . 25301
<b>WISCONSIN</b>	<b>MARSHFIELD</b>
Power Pac ....	301 E. 29th St. .... 54449

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.

**MTD PRODUCTS • 5965 GRAFTON ROAD • P.O. BOX 36900 • CLEVELAND, OHIO 44136**